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Mary Washington College

Academic Catalog

Bulletin 1980-82

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Mary Washington College does not discriminate in recruiting, admitting, or enrolling students on the basis of race, color, religion, physical disability, national origin, political affiliation, marital status, sex, or age. Questions should be directed to the Executive Vice President and AAEEO Officer, Mary Washington College, Fredericksburg, Virginia 22401.

The provisions of this Catalog are not to be regarded as an irrevocable contract between the student and the College. The College reserves the right to change any provisions or requirements at any time.

Mary Washington College is accredited by the Southern Association of Colleges and Schools.

The College is a member of:
The Association of Graduate Liberal Studies Programs
The Southern University Conference
The American Council on Education
The Association of State Colleges and Universities
The Association of Virginia Colleges
The College Entrance Examination Board
The National Association of Schools of Music

Honorary academic organizations with chapters on campus include:
Phi Beta Kappa (academic achievement)
Mortarboard (leadership, scholarship and service)
Chi Beta Phi (achievement in the sciences)

Women graduates are eligible for membership in the American Association of University Women

For answers to questions about Mary Washington College, to apply for admission, or to arrange interviews and tours, please contact:

H. Conrad Warlick
Dean of Admissions and Financial Aid
Mary Washington College
Fredericksburg, Virginia 22401
703/899-4681

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The College

Mary Washington College — named for the mother of the father of our country — is a link to our country's beginning and a stepping stone to its future.

Located on the site of one of the major Civil War battles, Mary Washington College is a study in contrast. Steeped in history, the College is preparing young men and women for their roles in the 21st century. At Mary Washington College you will find up-to-date instruction in computer science, nuclear physics and atomic chemistry.

At the same time, you can step back two hundred years to the days of America's founding fathers when you stroll through nearby Kenmore — home of George Washington's sister — or browse in the James Monroe Museum and Memorial Library, a shrine administered by the College.

But Mary Washington College is much, much more. Mary Washington is the only small, public, residential, coeducational, liberal arts college in Virginia.

Small, Public. Small, we think, is more a feeling than a number. Mary Washington has 2,480 students and a faculty of 140. That's large enough to support a healthy diversity of backgrounds and interests, and to maintain strength in the academic program. It is not large enough to encourage impersonality. At Mary Washington we think quality is equal to excellent teaching, plus small classes, plus personal attention. This simple formula, which describes our overall philosophy, has made Mary Washington the choice for many students who are looking at advantages often associated with private institutions.

Residential. Mary Washington has 17 residence halls that vary in capacity from 20 to 195. All offer the recreational and living amenities you would expect at a good, small college. There is everything on campus from an indoor swimming pool to a 31-bed infirmary. (See page 18 and the Student Handbook for more details).

Informal social life centers around Ann Carter Lee Hall. The College Shop, a place to eat and socialize with friends; large and small student lounges, the bookstore and the bank are found here. There are at least two formal dances on campus each year. Otherwise, it's mixers, parties, movies, rock, disco, and bluegrass. There are no social fraternities or sororities.

The College sponsors an annual concert series with visits from dance companies and theater groups. The Department of Dramatic Arts and Dance gives four plays and a series of laboratory productions each year, and the Dance Company performs once each semester. The College Chorus, the College-Community Symphony Orchestra and other musical groups give concerts and recitals.

The Student Handbook covers most aspects of life at Mary Washington and is published by the Office of the Dean of Students.

Coeducational. In 1970 Mary Washington began accepting male students. During the 1979-80 academic year, there were about 480 men on campus. There are upperclass, coeducational residence halls housing men on the lower floors and women on the upper floors. Freshmen residence halls are all-male and all-female.

Liberal Arts. Students at Mary Washington receive a broad education in the liberal arts, complemented by intense study in a particular field. The College provides a program of academic and career counseling, beginning in the summer prior to the first semester of the freshman year. Also, each department has a faculty counselor on careers. An academic internship program offers opportunities to earn academic credit for off-campus work. Adults, who wish to begin a college education or to continue interrupted studies, can enroll in the Bachelor of Liberal Studies Program and proceed at their own rate toward graduation. A program leading to a Master of Arts in Liberal Studies was established in the fall of 1980.

Because students are admitted to Mary Washington with the understanding that they are academically able and personally mature, the College offers them both freedom and responsibility. Students have much leeway in choosing their programs at Mary Washington, but all are demanding; even the best prepared student is likely to find the freshman year academically difficult. There are no "cut rules" or enforced study hours. But there is help.

The Mary Washington College faculty is a teaching faculty. Full professors teach at all levels. They are available for supervision of individual study, for advising, and for informal consultation. Most classes have fewer than 25 students. A few courses have as many as 60, but these students also meet in small labs or discussion groups.

In Virginia. The 275-acre campus stands on Marye's Heights, the site of the Civil War Battle of Fredericksburg. The town, located on the fall line of the Rappahannock River, was the boyhood home of George Washington, and a favorite meeting place of the founding fathers.

Today, Fredericksburg is near the center of the east coast megalopolis, halfway between Richmond and Washington, D.C. There are three major airports within fifty miles (National, Dulles, and Richmond). Hourly limousine service is available throughout the day to both National and Richmond airports. Trailways and Greyhound buses stop almost every hour at the Fredericksburg station, two blocks from campus. Interstate 95 is the major north-south route.

Ringed with shopping centers, the town retains much of its early charm, and offers an easy, gracious life style. The campus is within walking distance of downtown, allowing students to shop and participate in community activities.

Degrees and Awards

Mary Washington College awards five degrees — Bachelor of Arts, Bachelor of Science, Bachelor of Science in Medical Technology, Bachelor of Liberal Studies and Master of Liberal Studies. The requirements for each degree are outlined below.

Bachelor of Arts, Bachelor of Science, Bachelor of Science in Medical Technology

General Requirements

Degree requirements in these programs are stated in terms of attaining certain goals, not in terms of specific courses. Thus, to meet basic college requirements, the student investigates four broad areas of the liberal curriculum: literature, humanities, social science, and natural science and mathematics. Students specialize by taking eight to 12 courses in one subject area, which constitute a major program.

Although students are required to major in an academic discipline, they may also work toward a specific career or professional goal. Both major programs and career opportunities are outlined in the following sections.

Basic requirements and the major account for about half of the four-year course of study. Though students decide individually how best to fulfill the other half of their undergraduate curriculum, the College encourages a rich and diverse total program. Some options open to the student are individual study, student-designed special majors, pass/fail courses, internships and double majors.

Making decisions is an integral part of the educational process at Mary Washington. While faculty members help students select courses and major fields of study, the final decisions are the student's own.

Students are responsible for assuring that they fulfill all degree requirements.

I. B.A./B.S. Regular Program

Degree Specifics. The specific degree is determined by the choice of major program. Both degrees require 122 semester credit hours, distributed in five categories: basic requirements, diversification, major program, electives, and physical education. No course may be scored in more than one category, and all students must demonstrate competence in English composition and in a foreign language. A quality-point average of 2.00 on all Mary Washington College course work is also a degree requirement.

No course may be taken for credit which is prerequisite or introductory to a course already passed successfully.

A. Basic Requirements. Courses totaling at least six credits are required in each of the following areas:

Literature (L) — literature courses in classics, English, modern foreign languages

Humanities (H) — appropriate courses in American studies, art, classics, dance, dramatic arts, music, philosophy, religion, speech

Social Science (S) — appropriate courses in American studies, anthropology, economics, foreign language, geography, history, political science, psychology, sociology

Natural Science and Mathematics (NM) — appropriate courses in astronomy, biology, chemistry, computer science, geology, mathematics, physics, statistics

Courses which may be taken to satisfy the basic requirements are identified in the course listing by letters (L), (H), (S), or (N/M). These symbols refer to the area divisions explained above. The content of the course, rather than the department in which it is taught, determines its placement in one of the four area divisions.

B. Major Program. Up to one-third (a maximum of 40 credits) of the degree program may be required in the major program. At least three-quarters of the major program must be fulfilled by courses taken at Mary Washington College; a quality-point average of 2.00 on these courses is required. See the Academic Departments and Programs section for information on the various regular, interdisciplinary, cooperative and special majors offered by the College.

C. Electives. Additional courses must be taken to complete a total of 120 semester hours credit, exclusive of the required one year (two credits) in physical education.

D. Physical Education. Each student is required to take two credits of physical education or studio dance. Students who have been in military service may receive up to two credits in physical education, with one credit given for one year in the service.

E. Demonstration of Competence. *English Composition.* Each student must demonstrate competence in English composition. This is usually accomplished by the successful completion of English 101, Writing Workshop, but also may be satisfied by certification from the English Department.

Foreign language. Each student must demonstrate competence equivalent to the completion of the intermediate level college course in a foreign language, modern or ancient. Students who do not have four high school units through the fourth-year level of one language will be required to complete the intermediate course and its prerequisites, unless excused by the faculty in the language offered.

F. Diversification. At least one-third (40 credits) of the courses required for graduation must be taken in a subject or subjects other than the major subject. These are in addition to courses taken for basic requirements. Degree programs based on the minimum of 122 hours can have no more than 45 per cent (55 credits) of the total degree program in the same subject, unless they have been approved as an Alternate Degree Program for greater concentration (see below). Students in interdepartmental majors may use any course for diversification.

G. Residence Requirement. A student must earn at least 30 academic credits at Mary Washington to be considered a degree candidate. These 30 credits must include at least three-fourths of the major program, unless the student is spending the junior year abroad in an approved language program.

Students must spend the last session (regular semester or summer session) of their degree programs on campus. This rule does not apply to students in the two cooperative programs, Medical Technology and Speech Pathology and Audiology, in which the fourth year is spent at a cooperating institution.

II. B.A./B.S. Alternate Degree Program

Students with exceptional backgrounds and special interests may apply for the Alternate Degree Program, which allows greater concentration than the regular degree program. In an alternate degree program, up to one-half of the total program may be taken in a major subject; up to three-quarters of the total program may be taken in a single area, as defined under basic requirements, but at least one quarter of the total program must be taken in an area other than that which includes the major subject. Students interested in the alternate degree program should apply before the beginning of the junior year to the Committee on Special Degree Programs.

III. B.S. in Medical Technology

Under the cooperative Program in Medical Technology, the student completes three years (92 credit hours) of undergraduate course work at Mary Washington College, followed by 12 months of clinical training at Fairfax Hospital, Roanoke Memorial Hospitals, or the University of Virginia Hospital. Admission to the final 12-month hospital training program is competitive. Students must meet the admission requirements of the hospital to which they apply and should make application during the third year at Mary Washington. Upon successful completion of clinical work, students are qualified to take the National Registry Examination given by the American Society of Clinical Pathologists.

Students must fulfill the Mary Washington College basic and competency requirements outlined above (I). Other specific requirements and listing of courses for the clinical year are described in a separate brochure available in the Advising Office.

If students enrolled in the medical technology program change their interest, they may continue with the regular degree program at Mary Washington.

Bachelor of Liberal Studies

In addition to the Bachelor of Arts and Bachelor of Science degrees, the College offers the Bachelor of Liberal Studies degree for men and women 24 years of age and older who have a strong desire to consummate their learning in a baccalaureate degree. Learning acquired through life and work may be converted to college credit, and credit previously earned in other institutions may also apply toward this degree.

The candidate for the Bachelor of Liberal Studies degree works closely with a faculty mentor, and an individual program is designed which incorporates the student's past experience and present goals. These students proceed at their own pace toward completion of the program.

Degree Specifics. The Bachelor of Liberal Studies degree requires 120 semester credit hours, distributed in three categories: general education, electives, and core area. No course may be scored in more than one category. The student must demonstrate competence in English and earn at least 30 credits in graded classroom courses. At least 30 credits must be taken under the auspices of Mary Washington College after admission to the program. A quality-point average of 2.00 on all Mary Washington College course work is also required. Some students are required to complete BLST 0100, Orientation Seminar (one credit), an introduction to study skills. Others may wish to enroll in BLST 0101, Portfolio Development (one credit), for assistance in developing portfolios that document learning gained through life and work for the possible conversion to academic credit.

General Education. Courses totaling at least six credits are required in each of the following areas:

Humanities — art history, classics, drama, film and photography, literature, music, religion, philosophy

Social Science — economics, geography, history, political science, psychology, sociology

Natural Science and Mathematics — astronomy, biology, chemistry, geology, mathematics, physics

Communication Arts — computer language, creative writing, foreign language, performing arts, speech, studio art

Electives. A maximum of 56 credits may be taken in electives.

Competence in English Composition. Each student must demonstrate competence in English Composition. This may be accomplished by completing English 101, Writing Workshop, or by certification from the English Department.

Classroom Experience. At least 30 credits must be earned by direct classroom experience at Mary Washington or at another institution.

Residence Credit or Equivalent. Thirty semester hours must be completed after admission to the Bachelor of Liberal Studies Program at Mary Washington, or in a program supervised or approved by the College at another institution.

Core Area. At least 40 credits must be taken in a core area, which consists of a coherent group of subjects organized in such a way as to create a specialty or concentration. A regular liberal arts major offered by the College may be used, or an interdisciplinary selection may be made from the offerings of several departments. A quality-point average of 2.00 on courses counted in this area is required for the degree.

Servicemen's Opportunities Program. Mary Washington College is a member of the Servicemen's Opportunity College (SOC) network, a group of more than 300 colleges and universities committed to making post-secondary education more readily available to mobile military personnel through cooperation on admission, transfer of credits, and residency requirements. The SOC program makes it easier for service personnel to transfer college credits between MWC and other participating institutions, and to earn their degrees at the College. (Mary Washington's degree requirements specify that the student must complete 122 credit hours of college work, yet only 30 of those hours must be taken as "resident credit" — in courses taught by MWC faculty members, mostly in the student's major field.) More specific information about the SOC program may be obtained from the Office of the Dean.

Senior Citizens

Provided space in classes is available, legal residents of Virginia 60 years of age or older may take courses at reduced or waivered fees according to the stipulations detailed on page 25.

Senior citizens should request information about application procedures from the Vice President for Continuing Education.

Master of Arts in Liberal Studies

Beginning with the fall semester, 1980-81, the College will offer for the first time, a degree on the Master's level. The first program is a Master of Arts in Liberal Studies, to be followed in 1982 by a Master of Business Administration and in 1983 a Master of Public Administration. The Masters programs are designed for adult commuting students who wish to complete a degree while working, or for those students who wish to complete a degree for vocational or avocational interests. Courses will be offered in the evenings, on weekends and in the summer.

Degree Specifics. The Master of Arts in Liberal Studies requires 30 semester credit hours on the graduate level, distributed in four categories: initial courses, colloquia, electives, and directed study. All students take Ideas and Movements of the Western World (I and II), 6 semester credit hours, a team-taught interdisciplinary course surveying major trends in thought, the arts, history and social theory from Greece and Rome to the present. Transdisciplinary colloquia, taught by three graduate faculty members, provide a choice for another 6 semester credit hours. Fifteen semester credit hours form the student's elective courses chosen from a variety of graduate courses in specific disciplines and areas. Three semester credit hours of directed study complete the program.

Admission and Transfer Credit. Any student holding a Bachelor's degree from an accredited institution with a B average in the last two years of work may apply. A student with a lower average may apply for conditional status and, if accepted, may take the initial courses. Such a student, receiving B in both these courses, may apply for regular status and may use these six hours as part of the degree requirements.

All candidates for admission will be interviewed by the Director of Graduate Studies.

Students with graduate course credit elsewhere may apply 6 hours of such course work (grade of B or higher) to the elective portion of this program. Up to 6 additional hours may be applied to elective credit if such courses were taken in a similar program having parallel requirements. All transfer hours must be approved by the Director and the Graduate Council.

Application and Fees. Application forms are available from the Director of Graduate Studies, George Washington Hall. Fees include:

Application fee	$25
Credit hour fees:	
Virginia residents	$33
Non-Virginia residents	$60
Yearly registration fee (non-degree seeking students)	$15
Graduation fee	$25

Recognition of Student Achievement

The Dean's List. A student carrying at least 12 hours of new work on which quality points may be computed at the close of a grading period who attains a grade-point average of 3.50 or better on all work taken for graded credit for any semester is placed on the Dean's List of Honor Students. Decisions on the Dean's List are based on a student's record as it stands at the official close of the semester grading period. Thus, incompletes always prevent consideration for the Dean's List.

Intermediate Honors. A student at Mary Washington College who, as a freshman and sophomore, achieves a 3.75 quality-point average is awarded Intermediate Honors. To be eligible for Intermediate Honors, a student must have completed at least 58 hours, of which at least 44 must be work on which quality points can be computed.

Distinction Awards. General academic attainment of graduating seniors will be recognized through the awards of Distinction, High Distinction, and Highest Distinction, based solely on the student's academic average at Mary Washington College. The level of attainment for each award is as follows: Distinction, 3.25; High Distinction, 3.50; Highest Distinction, 3.75. A student may receive both departmental honors and one of the distinction awards.

To be graduated with Distinction, High Distinction or Highest Distinction, a student must have earned at least 94 hours on which quality points may be computed.

Mary Washington College Alumni Award. This award is presented annually by the Alumni Association at the Senior Convocation to that member of the graduating class who has shown distinction in academic achievement and outstanding service to the College.

Colgate W. Darden, Jr. Award. This award was established in 1960 to honor Colgate W. Darden, Jr. President of the University of Virginia from 1947 to 1959. It consists of a medal designed by Gaetano Cecere, formerly of the Department of Art, and a cash sum. It is awarded to the senior having the highest academic average.

To be eligible for the Darden Award, a student must have earned at least 94 hours on which quality points may be computed.

Richard S. Cross Grants for Undergraduate Research. Established by the late Richard S. Cross, a member of the College's first Board of Visitors, and supported by the generosity of his family, these grants are available to support student research projects which have been approved for academic credit by the departments and by the appropriate College committee. Further information may be obtained from the Office of the Dean.

The Grellet C. Simpson International Scholarship (for study abroad). Given by the Alumni Association in honor of the retirement of College President Grellet C. Simpson, this award carries a stipend of a maximum of $3,000 for up to a year's study abroad. Interested students who have completed 36 credit hours at Mary Washington College should submit a proposed program of study and budget to the Dean of the College.

Ann Elizabeth Collins Memorial Art Award. Established in memory of Ann Elizabeth Collins '73, by friends, relatives, and faculty, this award is given annually to the student who has the greatest potential for pen and ink drawings and graphics. The recipient is selected by members of the Department of Art, and the award is presented at the Student Art Show or another appropriate recognition event.

Ann Elizabeth Fitschen Memorial Political Science Award. Established by gifts from family, friends, and classmates of Ann Elizabeth Fitschen '75, a cash award is made annually to the senior majoring in Political Science with the best academic average, as determined by the faculty of the Department of Economics, Business and Public Affairs. An additional sum is presented annually to the Department, on behalf of the recipient, to be spent at the discretion of the Chairman.

Aurelia B. Walford Scholarships in Music. Established by the will of the late Aurelia B. Walford, these scholarships are awarded annually to music majors on the basis of academic merit and performance skills.

J. Binford Walford Scholarships in Architecture. Established by the will of the late Aurelia B. Walford, these scholarships are awarded annually to majors in art history, historic preservation or history who have stated career goals in architecture-related endeavors.

Recognition of Faculty Achievement

Grellet C. Simpson Award. This award, made possible by an anonymous donor, is presented each year at graduation to a faculty member in recognition of excellence in undergraduate teaching.

Previous recipients of this award are:

1972 Carmen L. Rivera
Professor of Modern Foreign Languages

1973 Sidney H. Mitchell
Professor of English

1974 Anna S. Hoye
Professor of Biology

1975 Earl G. Insley
Professor of Chemistry

1976 Donald E. Glover
Professor of English

1977 Glen R. Thomas
Professor of American Studies

1978 Nancy H. Mitchell
Professor of English

1979 Elizabeth A. Clark
Professor of Religion

Departments and Programs

Mary Washington College, through its fifteen academic departments, offers a variety of academic majors and other programs. There are 25 disciplinary majors, seven interdisciplinary and two cooperative majors. Some departments also offer special programs within the major, e.g., astronomy within the physics major, cartography within the geography major and communications within the English program.

Other special programs are on a college-wide basis, such as, Special Majors, Internships, Junior Year Abroad, Health Sciences, Pre-Law, Pre-Medical and Teacher Certification.

Academic Departments and their Programs

N.B. An asterisk indicates that a major is offered in that program.

Department of Anthropology, Geography and Sociology
Professor Carter, Chairperson; Professors Bowen, Emory, Sletten (Career Adviser for Sociology); Associate Professor Gouger (Career Adviser for Geography); Assistant Professors London, Olson, Palmieri, Williamson (Career Adviser for Anthropology).

Anthropology — p. 33
***Geography** (B.A.) — p. 48
***Sociology** (B.A.) — p. 65

Department of Art
Associate Professor Meyer, Chairperson; Professors Muick, Oliver; Associate Professors Hara, Lamph; Assistant Professors DiBella (Career Adviser for Studio Art), Dreiss (Career Adviser for Art History), Pendleton.

***Art History** (B.A.) — p. 33
***Studio Art** (B.A.) — p. 34

Department of Biological Sciences
Associate Professor Fuller, Chairperson; Professors Friedman, R. M. Johnson (Career Adviser for Biology), T. L. Johnson, Parris, W. C. Pinschmidt, Jr.; Associate Professors Bass (Career Adviser for Environmental Earth Sciences), M. W. Pinschmidt; Assistant Professor Southworth (Career Adviser for Medical Technology); Adjunct Professor Cornman.

***Biology** (B.S.) — p. 35
***Environmental Earth Sciences** (Interdisciplinary) (B.S.) — p. 47
***Medical Technology** (Cooperative Program) (B.S. in Med. Tech.) — p. 55

Department of Chemistry and Geology
Professor Mahoney, Chairperson (Career Adviser for Chemistry); Professors Cover, Crissman, Wishner; Associate Professors George, Gratz; Instructor Dagenhart (Career Adviser for Geology).

***Chemistry** (B.S.) — p. 38
***Geology** (B.S.) — p. 49

Department of Classics, Philosophy and Religion
Professor Clark, Chairperson (Career Adviser for Religion); Professors Burns, Van Sant (Career Adviser for Philosophy); Associate Professors Cain, Hatch (Career Adviser for Classics); Assistant Professor Fraser; Instructors Baley, Winn.

***Classics: Classical Civilization Concentration** (B.A.) — p. 39
***Classics: Latin Concentration** (B.A.) — p. 54
Greek — p. 50
Latin — p. 54
***Philosophy** (B.A.) — p. 58
***Religion** (B.A.) — p. 64

Department of Dramatic Arts and Dance
Professor Kenvin, Chairperson; Associate Professor Haydar; Assistant Professors Gray, Joyce (Career Adviser for Dramatic Arts); Instructor Graham (Career Adviser for Dance).

***Dance** (B.A.) — p. 40
***Drama** (B.A.) — p. 41
***Performing Arts** (B.A.) — p. 58

Department of Economics, Business and Public Affairs
Associate Professor Czarsty, Chairperson (Career Adviser for Business); Professors L. P. Fickett (Career Adviser for Public Administration), Krickus (Career Adviser for Political Science); Associate Professors Fingerhut, Kramer (Career Adviser for International Affairs); Assistant Professors Herrick, Lohrke, Rycroft (Career Adviser for Economics); Lecturers Morley, Tucker.

***Business Administration** (B.S.) — p. 37
***Economics** (B.A.) — p. 42
***International Affairs** (Interdisciplinary) (B.A.) — p. 53
***Political Science** (B.A.) — p. 61
***Public Administration** (B.S.) — p. 63

Department of Education
Professor Slayton, Chairperson (Career Adviser); Professors Merchent, Warlick; Associate Professors Holmes, Zisman; Assistant Professors Vawter, Vogel; Instructors Gill, J. Johnson.

Education — p. 43
Teacher Certification — p. 43

Department of English, Linguistics, and Speech
Associate Professor Kemp, Chairperson; Professors Brown, Fleming, Glover, Hanna, N. H. Mitchell, S. H. Mitchell (Career Adviser for English), Singh; Associate Professors Dervin, Duke (Career Adviser for Speech), Hansen, Lutterbie; Assistant Professor Collins (Career Adviser for Linguistics).

*English: Literature Concentration (B.A.) — p. 44
*English: Writing Concentration (B.A.) — p. 45
Linguistics — p. 54
Speech — p. 68
Speech Pathology and Audiology (Cooperative Program) (B.A.) — p. 68

Department of Health and Physical Education
Associate Professor Hegmann, Chairperson; Associate Professors Clement, Droste, Greenberg, Woosley; Assistant Professors Davies, Gallahan, Gordon, Kintzing; Riding Mistress Riedl.

Health — p. 51
Physical Education — p. 59

Department of History and American Studies
Associate Professor Crawley, Chairperson; Professors Bourdon, Thomas (Career Adviser for American Studies), Vance, Zimdars; Associate Professors Campbell, Ryang, Tracy, Warner (Career Adviser for History); Assistant Professor Blakemore; Instructor Spiess (Career Adviser for Historic Preservation).

*American Studies (Interdisciplinary) (B.A.) — p. 32
*Historic Preservation (Interdisciplinary) (B.A.) — p. 51
*History (B.A.) — p. 51

Department of Mathematical Sciences and Physics
Professor Lindsey, Chairperson (Career Adviser for Mathematics); Professors Atalay (Career Adviser for Physics), Nikolic; Associate Professors Ackerman, Harris, Pierce, Zeleznock; Assistant Professors Conroy (Career Adviser for Mathematics), Lutz, Tupitsyn.

*Computer and Information Science (B.S.) — p. 39
*Mathematics (B.S.) — p. 54
*Physics (B.S.) — p. 60
Statistics — p. 68

Department of Modern Foreign Languages
Professor Stephenson, Chairperson (Career Adviser for Spanish); Professors Ascari, Blessing (Career Adviser for French), Bozicevic (Career Adviser for Russian), Hofmann, Hoge; Associate Professors Herman, Manolis, Merrill (Career Adviser for German); Assistant Professors Peña, Niebuhr, Quann.

*French (B.A.) — p. 47
*German (B.A.) — p. 50
Italian — p. 53
Literatures in Translation — p. 56
Russian — p. 65
*Russian Studies (Interdisciplinary) (B.A.) — p. 65
*Spanish (B.A.) — p. 67

Department of Music
Professor Baker, Chairperson; Professor Lemoine; Assistant Professors Bailey, Long, Norwood (Career Adviser); Instructors Chalifoux-Goddin, M. Fickett, Haas, Randall, Reinburg, White.

*Music (B.A.) — p. 56

Department of Psychology
Professor MacEwen, Chairperson; Professors Kelly, Rabson (Career Adviser), Weinstock; Associate Professors Bill, Smith; Assistant Professors Moeller (Career Adviser), Nissim-Sabat, Puhakka.

*Psychology (B.A.) — p. 62
*Psychology (B.S.) — p. 62

Special Programs

Special Majors
The student and the faculty adviser work out an individual program by utilizing courses from two or more departments which define a field of concentration. This major must be approved by the Committee on Special Degree Programs during the final semester of the student's sophomore year. Current Special Majors include general liberal arts and science programs in Medieval Studies, Linguistics, Classical and General Archaeology, Ethnology, Italian Studies, Asian Studies, Ibero-American Studies, Urban Affairs, and Written Communication.

Academic Internships
The College offers a program of academic internships in which qualified juniors and seniors work in off-campus positions. Cooperating academic departments supervise the interns and award academic credit for the learning experience.

Recent placements include research with the Federal Reserve Bank and the National Archives, work as an auditor with Best Products, preparation of geologic maps for the National Geologic Survey, comprehensive exposure to banking at the National Bank of Fredericksburg, and political research for the syndicated columnists Evans and Novak.

A survey of recent graduates indicated that 55% of them felt their internship had been an important factor in securing their first position.

Junior Year Abroad
The procedure for earning credits at colleges and universities abroad is basically the same as earning credits at other institutions in the United States, except that more advance planning is necessary.

With the help of departmental faculty and the Advising Office, interested students should investigate the wide range of available programs. Most students spend the year abroad with a program sponsored by an American institution, although a few apply directly to the foreign school. All courses must be approved in advance for transfer credit. Courses to be counted in the major program must also be approved by the student's major adviser who helps the student structure a program in relation to the major at Mary Washington.

Health Sciences
The Health Sciences constitute a variety of paramedical professions that encompass the general field of health care. The basic liberal arts and science courses offered at Mary Washington provide the initial preparation for entrance to nursing, physical therapy, dental hygiene, pharmacy, medical technology, and veterinary science professional schools.

During their freshman year at Mary Washington students must give careful attention to the admission requirements of professional schools. A career adviser is available to help students select courses which meet these admission requirements and prepare them for the professional qualification examinations in their field. Admission to professional institutions is, of course, very competitive and depends on academic performance, personal interview, and scores on the qualifying examination.

Students interested in medical technology earn a Bachelor of Science in Medical Technology degree by taking their first three years at the College and the fourth year at a cooperating institution. Individual programs of study at the College are determined by the students and the program adviser with regard for the prerequisites named by the cooperating institution. (See *Medical Technology*)

The major program in speech pathology and audiology is offered in cooperation with the University of Virginia. Students complete their first three years at the College and spend their fourth year in residence at the University of Virginia, earning a Bachelor of Arts degree from Mary Washington College. Full details on this program are available from the Speech Career Adviser. (See *Speech Pathology and Audiology*)

Pre-Medical
Students interested in a career in medicine or dentistry may concentrate their studies in any major field. In general, medical and dental schools are primarily interested in students who have made a dedicated commitment to a major field and have demonstrated a superior performance within it as well as in their general academic program.

The Pre-Medical Advisory Committee at the College assists pre-medical students by collecting biographical data and faculty recommendations, by counseling for the medical college admissions test (MCAT), arranging an interview with the committee, and finally in the senior year prepares an integral, institutional recommendation that is sent to the medical school. Since admission to medical school is highly competitive, it is advantageous for pre-medical students to have a second major interest to fall back on in case their admission to medical school is unsuccessful. For example, there are excellent postgraduate opportunities for biology and chemistry majors to pursue careers in medically oriented fields such as biochemistry, clinical chemistry, medical technology, pharmacology, medicinal chemistry, and forensic science to mention a few.

Pre-Law
This program provides guidelines for students interested in entering law school. There is no standard pre-law curriculum at the College. The Program Adviser assists students in selecting courses which meet their individual needs and provide the foundation for acquiring skills necessary to the legal profession. The career pattern includes courses in written and oral communication, and courses which help develop the reasoning process.

Teacher Certification
Both the Virginia State Department of Education and the National Association of State Directors of Teacher Education and Certification have approved the teaching education programs at Mary Washington College. Students who complete an approved program qualify for certification in all the states with which Virginia has a reciprocity agreement. See also departmental offerings, Department of Education.

Policies and Procedures

At Mary Washington College standards have been set to provide for a smoothly run academic program. Rules and regulations guarantee that all students are treated fairly in both their academic and non-academic lives. The Student Handbook, issued by the Dean of Students, describes non-academic policies.

For academic procedures, students and faculty consult this catalog and the Dictionary of Academic Regulations, a comprehensive and easy-to-use reference. Both the catalog and the dictionary are for the convenience and information of the student. Neither should be interpreted as an irrevocable contract. Academic policies and procedures and degree requirements are listed according to standards in effect at the time of printing and are subject to change at the discretion of the College. All changes are announced by mail or in the weekly Bulletin. If a change is announced which affects the student's program, it is the student's responsibility to adjust that program accordingly or to obtain written confirmation from the Dean for any variation. (The Dean welcomes questions and requests concerning the interpretation and applicability of academic policies and procedures.)

Since the final responsibility for meeting all degree requirements rests with the students, they should have complete knowledge of the regulations pertaining to the academic program of the College. The Dictionary will be distributed to each entering student and will be updated annually.

Honor System

Since 1944, the students of Mary Washington College have lived under the Honor System. Although its constitution is occasionally revised, the Honor Code has remained basically the same throughout the years. The Honor Council retains sole control of its operations and is responsible to the student body, which derives its authority to establish the Honor System from the Board of Visitors. Because of the nature of the Honor System, final responsibility lies with the Board of Visitors, but all enforcement is in the hands of students.

The Honor System provides that a student shall act honorably in all relationships of campus life. Lying, cheating, stealing or breaking one's word of honor are considered infringements of the system, and the penalty for violation, as determined by the Honor Council, may be dismissal from the College. The pledge required on quizzes, examinations, and other classwork means that the work the student submits to a professor is the student's own and has been completed in accordance with the requirements for the course as laid down by the professor.

All students must understand that by accepting admission to Mary Washington, they make a commitment to the provisions of the Honor Code. Upon entering the College for the first time, every student is given a copy of the complete Honor Code and is expected to become familiar with its provisions. (See the Student Handbook for a copy of the Honor Constitution.) Student counselors interpret the Honor System to all new students before they are asked to sign a pledge card stating that they understand what is expected and realize that a plea of ignorance will not be accepted by the Honor Council. Registration as a student is not considered complete until this card has been signed.

Calendar

Mary Washington College uses a calendar of two semesters and one summer session. The fall semester begins in late August and ends in December; the spring semester begins in January and ends in May. Since it is an integral part of the school calendar, the summer session permits the completion of a full semester's work, by having one three-week and two four-week sessions.

Course Load

If a student intends to graduate in eight semesters, normal progress toward a degree is as follows: a minimum of 28 credit hours completed for the first two semesters and 15 to 18 credit hours completed during each of the remaining six semesters, for a total of 122 hours.

Under this definition of normal progress, students are classified as follows: freshmen, fewer than 28 credits; sophomores, 28 to 57 credits; juniors, 58 to 89 credits; seniors, 90 credits or more.

Students wishing to accelerate and graduate in fewer than eight semesters, will consistently take 17 or 18 credits each semester and attend summer sessions. In this way, a student can graduate in three calendar years.

Residential students carrying fewer than 12 credits must have permission from the Dean of Students to live in a residence hall. Students on financial aid should consult the Dean of Admissions and Financial Aid if they wish to carry fewer than 12 credits.

Attendance

In the educational philosophy of the College, classroom work is an essential part of educational development. Therefore, the College expects regular class attendance, although it does not impose any set rules. An instructor may require a student whose absences are excessive to withdraw from a course. No less than 25 per cent of the total number of class meetings may be considered excessive, and the instructor must announce during the first week of the semester whether he will enforce the excessive absence rule.

Students are responsible and accountable for all tests, assignments, material covered, and announcements made in class whether they are present or not. Leaving campus early for weekends or holidays is never a valid reason for missing classes or shifting examinations. Students whose class attendance is unnecessarily irregular may be requested by the Dean to withdraw from the College.

A student who has been in the infirmary and has missed classes should tell the instructor, who may call the infirmary to learn whether the College physician has advice on how to work with the student. Students under the care of a doctor should request a memo of confirmation from the doctor to present to their instructors. A student unavoidably absent for a week or more, due to hospitalization, serious illness, or a sudden emergency, should notify the Advising Office as soon as possible. If appropriate, the Advising Office will inform instructors of the student's circumstances; but this in no way relieves the student of responsibility for course work.

Students faced with unavoidable extended absences should consult not only with their instructors but also with the Advising Office to discuss the advantages of withdrawing for the semester.

Grading

Academic performance in any course is rated according to the following system, which is printed on all grade reports:

A	unusual excellence
B	work distinctly above average
C	work of average or medium quality
D	the lowest passing mark, work of below average quality
F	failure, no credit in the course
PA	pass, in a pass/fail course
FA	failure, in a pass/fail course, no credit in the course
SA	satisfactory, in a physical education course
UN	unsatisfactory, in a physical education course, no credit in the course
I	incomplete, illness or emergency in final portion of a semester has prevented the student from finishing the course
CR	test out (credit-by-examination)
CI	test incomplete (credit-by-examination)
WP	withdraw passing
WF	withdraw failing

Quality-Point Average. Each grade, A through D, carries a stated number of quality points, which are multiplied by the number of credit hours to compute the total quality points for the course. A carries four; B carries three; C carries two, and D carries one. Thus, a three-hour course with a grade of A provides 12 quality points; similarly; if a course carries four hours of credit and the grade is A, it provides 16 quality points.

The quality-point average is computed by dividing the total under hours attempted (on the grade report) into the total under Quality Points. Note that the hours attempted column does not include credit-by-examination, transfer credits, or physical education hours.

Pass/Fail Option. With the approval of an academic adviser (for freshmen and sophomores) or a department adviser (for juniors and seniors), a student may take one course each semester or during a complete summer session on a pass/fail basis for a maximum of eight pass/fail courses during the entire degree program. A grade of PA (pass) does not affect the quality-point average, but a grade of FA (failure) in a pass/fail course counts the same as an F in a graded course and will lower the quality-point average. These courses can be used for competence, elective, or diversification credit, but not for basic or major requirements. A student may take a pass/fail and a physical education course in the same semester. The decision to take a course pass/fail must be made within the first two weeks of the semester. If the decision is not made at the time of registration, the Advising Office must change a course from graded to pass/fail or from pass/fail to graded. Before electing to use the pass/fail option, a student should consider its effect on his opportunity to earn academic awards and distinctions, for these are calculated on the basis of a specified minimum number of graded credit hours.

Credit-By-Examination. An enrolled student may request from a department a special examination on any course for which an examination is appropriate. If the student passes the examination, the course and a grade of "CR" will be recorded on his transcript for hour credit, but not for quality-point credit. If the student fails the examination, a grade of "CI" (Test Incomplete) is recorded. During the next regular semester this grade must be removed by taking and passing the course; otherwise, the Test Incomplete will be converted to an "F." The course may be taken on a graded or pass/fail basis. If taken on a graded basis, the course may count toward the major program or be used to satisfy Basic Requirements. A fee is charged for this examination. Credit-by-Examination is not available for such courses as seminars, individual study, studio, and laboratory courses.

Transfer Credit

A student enrolled at the College who plans to earn transfer credit from another institution should provide a catalog description of the course or courses, and request advance approval from the Office of the Dean, before registering for the course. If the course is approved and the student earns a grade of C or better, the credits are recorded on the student's permanent record at Mary Washington. Transcripts of courses approved for transfer credit should be sent directly to the Office of Student Records.

Grades earned in transfer work do not affect the student's quality point average at Mary Washington College. Credit is given for the hours only.

Continuing at the College

Regularly enrolled Mary Washington students are asked to indicate each year their intention to return for the fall session. A form is mailed early in the second semester and must be returned by a specified deadline with a $10 processing fee and a $100 room deposit for dormitory students, or a $50 fee deposit for commuting students. The form and room deposit must be returned by the deadline if residential space is to be guaranteed.

Students whose completed forms and deposits are received after the deadline may be placed on a waiting list for residential accommodations.

The $10 processing fee is non-refundable; the $100 deposit or $50 fee deposit is applied to the student's account for the following session. It is not normally refundable after a specified deadline unless the student is ineligible to continue, or unless the Comptroller and Dean of Admissions and Financial Aid agree that unusual circumstances justify a refund.

Although the College makes every effort to furnish forms for returning students directly to enrolled students, it is the responsibility of the individual student to file the form. These forms and instructions are available from the Dean of Admissions and Financial Aid.

Academic Probation

Academic probation means a state of warning that a student does not have, for all recorded work at Mary Washington College, a C average on graded courses. After every grading period all students are sent probation notices (or suspension notices) if their overall grade-point averages have fallen or remained below 2.00.

A student placed on probation must consult the faculty adviser and the Advising Office.

Academic Suspension

Students must be suspended for academic deficiency if they fall below a "C" average for the fourth semester, whether successive or not. Suspension means that a student may not register for classes for at least two successive semesters, a full summer session counting as a semester. After that time, continuance is possible only after a schedule of return to good standing has been agreed upon in writing between Dean and student. The student must maintain this schedule in order to continue at the College.

Withdrawal from the College

A student who wishes to withdraw from the College during the semester must notify the Office of the Dean in person and, if a minor, must have written consent of parent or guardian. The College requests that the student also meet with an academic adviser in the Advising Office. At that time, the student may be placed on leave of absence.

Returning to the College

Returning After Leave of Absence. A student who wishes to return after a leave of absence should write the Dean of Admissions and Financial Aid and ask for the appropriate form. The form is returned with a $10 processing fee and the room or fee deposit, under the same conditions as regularly enrolled students who wish to continue at the College.

Unless there is an exceptional circumstance, students who take leaves of absence from the College can expect to be re-enrolled without difficulty. They should apply as soon as possible, especially if they wish residential accommodations.

Returning After Withdrawal. A student who withdraws from the College during the semester or at the end of a semester is not automatically re-enrolled, but must submit a form to the Dean of Admissions and Financial Aid indicating a desire to return to Mary Washington. Work taken at another institution as well as that at Mary Washington, will be taken into consideration by the Committte on Admissions.

Returning After Suspension. A student suspended from the College for other than academic deficiency, should contact the Dean of Admissions and Financial Aid for appropriate forms.

Students suspended for academic deficiencies will not be considered eligible to return until they have been away from the College for at least two semesters (the full summer session counting as a semester). Upon receipt of the appropriate form, the Dean of Admissions and Financial Aid will consult with the Dean of the College. In addition, the student must meet with the Dean of the College to draw up a schedule of return to good academic standing.

Services and Activities

Academic

The College provides a number of facilities and services to assist students with their academic study and planning. These include the library facilities, academic advising, career planning and job placement, the audio-visual center and the computer.

The Library

The E. Lee Trinkle Library, named after the man who served as Governor of Virginia from 1922 to 1926, contains one of the finest collections for undergraduates in the Commonwealth. The resources include more than 260,000 cataloged volumes, 1,127 current magazine and newspaper subscriptions, and additional collections in microfilm, including the *New York Times* from its beginning date of 1851 to the present time and the *Fredericksburg Free Lance Star* from 1926. As a United States Federal Government depository since 1940, the library receives approximately 4,000 documents annually.

The Daniel H. Woodward Rare Book Room houses a collection of more than 2,000 unique, rare, or very valuable works. Among the holdings is an incunabulum, a 1496 printing of Pliny's *Naturalis Historia.* A special collection of first and scarce editions of James Joyce's writings and another of the works of Claude Bernard, the 19th century physiologist, are numbered among the items in the Woodward Collection.

The building, one of the most beautiful on campus, was erected in 1941. An addition, constructed in 1963, provided extra stack and seating space. Although the beauty of the original structure has been preserved, the floors have been carpeted and new lighting installed. A variety of seating is provided, including individual study carrels. A typing room furnished with typewriters is provided for students at no charge. Copying service is available in the building at a nominal cost. The Library is open 91 hours each week during the regular session. During those hours it offers a variety of services based on the educational concept which holds that a library is the natural extension of the classroom. Instead of a passive, custodial role, the Library staff pursues an active, teaching role in the intellectual development of the student. Beyond the traditional reference services that are offered by professional librarians 76 hours weekly, a variety of library instructional programs designed to aid students in acquiring competence in the effective use of the library are regularly scheduled. Individualized instruction including term paper clinics and discipline-oriented research seminars, with individualized consultations, are offered each semester. Course-related instruction arranged through the Professor and a one-credit course in "Library Resources and Their Use" are two additional forms of library instruction which attempt to make the library more meaningful for the student. A wide selection of subject and discipline-related biliographies and research aids, a regularly revised library handbook, and a quarterly library newsletter entitled *News and Views from Trinkle* are among the library publications provided to aid students in making more effective use of the resources at Trinkle Library.

The Trinkle Library is a member of the Southeastern Library Network (SOLINET), a cooperative bibliographic utility which provides access to an on-line, machine-readable data base for use in cataloging and processing the materials acquired by the Library.

A friends of the library group known as The Associates of Trinkle Library was formed in 1978. The organization is concerned with promoting the enjoyment of books and libraries and offers programs designed to enrich the cultural and intellectual life of the campus and its members.

Academic Advising

The Academic Advising Office is staffed by professional counselors and faculty members who are available throughout the year to advise students concerning their current academic program, to assist them in planning the next semester's or year's program, and to suggest sources of information on post-college opportunities. All students who have not declared majors are officially advised through this office. Students are also encouraged to consult with faculty advisers in the areas of their academic interests.

Career Planning and Placement

While the primary goal of Mary Washington College is to provide a sound liberal arts education for its students, the College is aware of the need for most students to secure a remunerative position upon leaving college. To help them find the position or graduate school best suited to their talents and needs, the College provides career planning workshops throughout the year for all students and special resume writing and interview skills workshops for seniors. The Assistant

Dean for Career Services conducts most of these workshops. His office also publishes a newsletter with news of job possibilities and other career planning suggestions. The Placement Bureau compiles, at the student's request, a personnel file, which can be sent to prospective employers. This service is also available to alumni. The Placement Bureau also schedules interviews with prospective employers on campus and maintains a file of job openings.

The Audio-Visual Center

The Audio-Visual Center, located in Chandler Hall, offers audio and video taping facilities, photography, slide production, loan and repair of A-V equipment, and graphic production. The center's staff oversees the operation of the George Washington Hall stage facilities.

Faculty and qualified students may borrow tape recorders, record players, sound systems, microphones, cameras, movie projectors, slide projectors and video equipment from the A-V Center. Equipment and film rental catalogs are also available in the center. The staff offers technical assistance between the hours of 8 a.m. and 5 p.m. Monday through Friday.

The Computer

A Hewlett Packard 3000 Series II Computer system was recently installed in the college's administrative building to handle student financial and record keeping operations. Although the computer's primary function is administrative, it is also being used as an instructional tool in courses taught by several academic departments. The ability to simultaneously support both academic and administrative applications is one of the strengths of the new system.

Non-Academic

The College has a large range of activities and services concerned with the non-academic aspects of college life. These are under the direction of the Dean of Students and are covered in detail in the Student Handbook, published by her office. A few examples are included here.

Sports

Mary Washington has both men's and women's intercollegiate teams. There are men's intercollegiate teams in basketball, cross country, golf, soccer, tennis and track and field. The program grows as the number of men on campus increases. Women have intercollegiate teams in basketball, cross country, golf, field hockey, lacrosse, riding, swimming, tennis, track and field, and volleyball. State championships were won by the basketball and volleyball teams in 1979-80.

A modern physical education building provides a basketball gymnasium, dance studios, an intercollegiate swimming pool with one and three meter boards, an auxiliary gymnasium, a weight training room, a handball-racketball court, two competitive volleyball courts and a multi-purpose activities room. Outdoor facilities include fields for flag-football, hockey, lacrosse, softball and soccer, a cross-country course, a new 10-court lighted tennis complex, golf driving and putting area and a new 8-lane, 400 meter track.

The Recreation Association sponsors intramurals in flag-football, soccer, racketball, volleyball, basketball and water polo. The Association also sponsors trips, classes, clinics and clubs in these and other sports.

Clubs

Most academic departments have interest clubs or honoraries; there are also clubs for students interested in physical therapy, medical studies, and international relations. There are Afro-Americans, Young Democrats, Young Republicans, and off-campus branches of student religious organizations. Students produce three regular publications — a weekly newspaper, a yearbook, and a literary magazine.

Residence Halls

Seventeen residence halls on campus offer students a wide choice in life styles. Small language and honor houses, an academic/quiet student house, single sex, and co-educational halls are available to students. Each hall is staffed with a full time residence director/coordinator, and specially selected upperclass students trained to assist students in college life.

Health Center

The College Health Center offers students diagnostic referral services as well as special care in its 31 bed facility. A full time physician, 24 hour staffing by registered nurses, and consulting services from area specialists help to give Mary Washington College students a comprehensive health resource.

Counseling Center

The Counseling Center also looks toward the health needs of students by offering personal counseling services, and, when needed, making referrals to community resources. The Center also provides students with both academic and vocational testing administration.

Admission

Mary Washington College takes a personal approach to admissions. Each admissions application is discussed and weighed along with other information provided. Personal interviews are encouraged, and supporting information about each candidate is helpful in the selection process. The admissions office is open for visits and is willing to answer questions and provide information about any aspect of college life.

Mary Washington College does not discriminate in recruiting, admitting, or enrolling students on the basis of race, color, religion, physical disability, national origin, political affiliation, marital status, sex, or age. Questions may be directed to the AAEEO Officer, Mary Washington College.

For the purposes of initial admission and continuance there are two ways in which students may be classified: regular and special.

Admission as a Regular Student

To be admitted as a regular student, an individual must submit a full application with all supportive transcripts from secondary school and all collegiate institutions attended. This application, along with information furnished by the secondary school and results of the College Board Scholastic Aptitude Test, is reviewed by the appropriate Committee on Admissions, and upon its decision, the applicant is either admitted or not admitted as a degree-seeking student at Mary Washington College.

A regular student may be full-time or part-time. This is determined at the time the student registers for classes and depends upon the number of hours carried for credit. Generally, a regular student must register for 12 or more credit hours to qualify for full-time status. A regular student may, however, be given permission by the Vice President for Academic Affairs and Dean and the Dean of Students to maintain full-time student status and register for fewer than 12 credit hours for reasons of health, academic performance, service in the student leadership role of President of the Honor Council or President of the Student Association, or for other special circumstances. Students receiving this permission shall pay the tuition and fees of a regular student with full-time student status. During the semester, a regular full-time student may drop without permission below a course load of 12 credit hours and become a part-time student; in such cases there will be no remission of fees. A student may not live in college housing while carrying fewer than 12 credit hours without permission from the Dean of Students. Students receiving financial assistance must consult with the Dean of Admissions and Financial Aid concerning the consequences of dropping below a course load of 12 credit hours.

A person who has been admitted as a regular student remains a regular student until graduation from Mary Washington College. That person cannot become a special student after having been admitted as a regular student.

Admission as a Special Student

Applicants for admission as special students are most often those who are interested not in a degree but in specific courses, or students at other institutions who wish to earn credits to transfer to their own institutions.

Special students complete a greatly abbreviated application form. The Vice President for Continuing Education makes the decision on the admission of special students. Special student admission is an open-door policy as long as the student's record appears to be clear. Admission as a special student is not admission to a degree program of the College.

The special student will be notified of the specific time of registration. Although the application may be submitted at any time up to the first day of class, it is more convenient if the application is submitted well in advance.

Special students may be full-time or part-time; however, almost all special students are part-time. This is the intent of the program. A part-time student can take 11 credit hours or fewer and pay by the credit hour attempted. A special student can seek permission of the Vice President for Continuing Education to be a full-time special student. Certain criteria must be met if such permission is to be granted. Full-time special students are college graduates who are seeking certification in education or a similar field, college students who are taking a full program of study which they have been given permission to transfer to their parent institution to complete a degree program, or students who are taking a full program to qualify for graduate or professional school.

A person who has applied to Mary Washington College as a regular student for any session and who has been denied admission is not eligible to apply to the college for that same session as a special student.

A person who has at one time been a special student at Mary Washington College can apply at a later date as a regular student. The person then submits the regular student application with all supportive information. This application will be reviewed by the Committee on Admissions.

Admission Directly after High School

A student who intends to enter Mary Washington directly after high school graduation should request application materials from the Dean of Admissions and Financial Aid early in the first semester of the senior year. Students requesting a decision under the Early Decision Plan should also request the Early Decision Agreement form.

The application should be returned as soon as convenient. The transcript form must be completed by the appropriate high school official and returned. If the scores earned on the Scholastic Aptitude and Achievement Tests have not already been sent to the College, the applicant should request the College Board to send them directly to Mary Washington.

The suggested deadline for submitting an application is March 1. All applicants who meet this deadline will be notified of the Committee's decision by April 1. All acceptances are conditional upon second semester performance.

A student who applies after the suggested March 1 deadline follows the same procedure. Applications will be considered on a space available basis. The Committee will announce its decision as soon as possible after materials have been received.

Application Fee. All students send a $15 non-refundable application fee with the initial application.

Early Decision Plan. The student who has selected Mary Washington College as a first choice may wish to apply for admission under the Early Decision Plan. Under this plan the student agrees to accept an offer of admission, if it is extended by the Committee on Admissions. The College in return agrees to announce its decision by December 1.

Interested candidates should request an Early Decision form along with regular application materials, early in the fall semester of the senior year. The candidate may apply to other colleges but must agree to withdraw those applications if notified of acceptance by Mary Washington.

The application form, the Early Decision form, the transcript, and results of the Scholastic Aptitude Test should be submitted to the College before November 1. The Committee on Admissions will review the materials and notify the applicant by December 1. Achievement tests may be completed during the senior year.

Should the Committee not act favorably on an early decision request, the applicant's file will remain active, and the Committee will reconsider it after the candidate submits additional grades and/or scores at the end of the fall semester.

High School Preparation. The general academic requirements for admission are graduation from an accredited secondary school or the equivalent and credit for at least sixteen academic units. The units presented must include a major emphasis in areas of college preparatory work. Careful attention is given in the admissions process to the quantity and quality of the college preparatory curriculum.

Applicants should complete, as a minimum, four years of English, three years of mathematics (including algebra II), one or more years of laboratory science and of social studies, and at least two years of foreign language. Elective units earned in art, music, drama, journalism, etc., will also be considered. Although no requirements for admission are absolute, experience has shown that successful students at the College have completed this suggested program of study.

Examinations. Students entering directly from high school are required to take the Scholastic Aptitude Test of the College Board and to request that the results be sent to the College. The SAT should be taken no later than the January test date in the senior year. If the test is taken after that date, consideration of the application must depend on space available when the score is received.

It is strongly recommended, but not required, that applicants submit achievement test scores. Students wishing to be considered for exemption from the College competence requirement in English composition must take the English Composition Achievement Test. Achievement test scores in foreign language may be submitted for placement.

Information about the tests may be obtained from the College Board Admissions Testing Program, Box 592, Princeton, New Jersey 08540, or from secondary school counselors. When making application for the tests, the student should specify that the results be sent to Mary Washington College (College Code Number 5398).

Character, Personality and Interests. In addition to the scholastic record, recommendations from appropriate school officials are welcomed. Such recommendations should include an assessment of academic potential, as well as character, personality, and interests. Activities that reflect leadership or intellectual interests are impressive only if they reinforce sound academic achievement. Since Mary Washington operates under a successful honor system, assurance of personal integrity is indispensable.

Committee Review. The Committee on Admissions approves applicants only if they seem prepared to succeed in a competitive, liberal arts curriculum. The Committee considers academic achievement, class rank, secondary school recommendations, aptitude, and achievement test results, as well as a pattern of courses demonstrating interest and competence in the liberal arts and sciences.

The Committee feels that the senior year is extremely important, and that such basic academic subjects as English, mathematics, laboratory sciences, and foreign language should be continued through the final term.

Admissions Deposit. Students accepted by the College send an answer and a deposit — dormitory students submit a $100 room deposit, and commuting students submit a $50 fee deposit. Students applying by March 1, who are notified by April 1, are required to answer and to send the deposit by May 1. If the application is late, and the letter of acceptance is received after May 1, the deposit is due within two weeks. The deposit is applied to the first semester charges. Unless the student has asked for Early Decision, the deposit is refundable upon request until May 1. If the student is accepted for the spring semester, the deposit is refundable upon request until December 15.

Medical Examination. All entering students who intend to reside on campus must present a certificate from a physician stating that they have had a recent physical examination. A form for the doctor's use is provided and must be completed after April 1 and returned not later than July 15.

Deferred Enrollment. Upon request, an accepted student may have one year to exercise the option of enrolling. Delayed enrollment is subject to admission requirements in force at the time the initial decision is made. If students enroll at another institution before enrolling at Mary Washington, they must apply again as transfer students.

Students will be subject to rules, regulations, and financial charges in effect when they actually enroll.

Advanced Placement. Students entering from high school may apply for college credit through the examination given by the Advanced Placement Program of the College Entrance Examination Board. These examinations are offered in May in various academic areas. For further information students should consult their high school guidance counselors.

Interested students should have the results of the Advanced Placement examination forwarded to the College. Normally, credit is given for a score of three or higher. Credits earned in this manner may not count toward the major program. They may, however, be used to satisfy Basic Requirements.

Challenge Examination. These may be taken by an entering student to support a petition for academic credit for mastery of subject matter covered by elected courses offered by Mary Washington College. Challenge examinations may not be taken in studio and laboratory courses, seminars, individual study courses, and many upper-level courses. Credits earned in this manner may not count toward the major program, but may be used to satisfy Basic Requirements. A fee is charged for taking a challenge examination.

Transfers from Other Colleges

The Admissions Committee makes its decision on transfer students on the basis of the application, a high school transcript, transcripts of all college work, and the Scholastic Aptitude Test.

Candidates may be considered for transfer admission if they are entitled to honorable dismissal without academic or social probation in the last institution attended.

Transfer Credit. As a rule, transfer credit is given for courses of the same type (liberal arts courses) and under the same guidelines as courses offered at Mary Washington. Courses for which transfer credit is requested must not overlap those which the student takes at the College, and a minimum grade of C must have been earned. New transfer students should have transcripts from other institutions sent directly to the Office of Admissions. This office will complete an estimate of transfer credits to be allowed. After admission procedures have been completed, a final evaluation will be issued by the Office of the Dean.

Residence Requirement for Transfer Credit. To be eligible for a Mary Washington degree, a student must be enrolled on campus the last semester and earn 30 semester hours of credits from the College. Also, at least three-fourths of the major program must be earned at the College. Full information on transfer credit is given under "Academic Regulations and Policies." A preliminary evaluation of transfer credit may be made by the Dean of Admissions and Financial Aid, but all final decisions are made by the Office of the Dean. Transfer credit is made a part of the permanent record when the student has completed one semester's work at Mary Washington College.

Procedure. The Dean of Admissions and Financial Aid will send a prospective transfer student an application and a secondary school transcript form. The student must complete and return the application and arrange for the high school transcript form to be completed and sent by appropriate secondary school official. He must also arrange for transcripts to be sent from all colleges he has attended.

A transfer applicant is urged to submit all materials early in the first semester of the year prior to transfer. The Committee on Admissions will make a preliminary evaluation of this information and a final decision upon receipt of the first semester or quarter grades.

Examination. A candidate must submit the results of the Scholastic Aptitude Test, normally included on the high school transcript. A candidate who cannot meet these testing requirements should consult with the Dean of Admissions and Financial Aid for advice about appropriate substitutions.

Committee Review. The Committee considers many factors in judging whether the transfer candidate can succeed at Mary Washington College, but puts particular emphasis on the program and academic achievement in the last college attended.

Fees and Deposits. These are the same as for students entering directly from high school.

Medical Examination. All entering transfer students who intend to reside on campus must also present a certificate from a physician stating that they have had a recent physical examination. A form for the doctor's use is provided and must be completed after April 1 and returned not later then July 15.

Admission before High School Graduation

Selected students with exceptional ability can enroll at Mary Washington College before they have graduated from high school under one of three plans.

Admission to the Summer Session. A high school senior whose level of intellectual and personal maturity and academic promise is of the highest caliber is eligible to apply to the summer session. A principal or guidance counselor must recommend the student.

After consulting the principal or guidance counselor, the student submits a summer session application. If accepted, the student takes the same courses and course load as any freshman student. Credit and grades earned are added to the student's permanent record at Mary Washington.

Admission to the summer session, for any student, does not constitute admission to the regular session. A student who wishes to earn a Mary Washington degree applies, using the regular procedure, during the first semester of the senior year.

Admission to Part-Time Study during the Regular Session. Qualified seniors in an area high school who wish to supplement their academic loads in the senior year may apply for admission as part-time students.

The candidate submits the special student application, a high school transcript, and a letter of recommendation for this program from the principal or director of guidance.

Admission after the Junior Year. This program, in which the student enters as a full-time freshman after the junior year in high school, is designed for a small number of exceptionally qualified students who have completed almost all of the 16 credits required for admission.

To be considered, a candidate must have all required credits in mathematics, science, and foreign language. Most commonly, the student has at the end of the junior year only one unit in English and one in social science to complete.

The admission procedure is the same as for a regular candidate, except that the student usually applies in the spring. The student presents Scholastic Aptitude Tests results with the applications, and must submit Achievement Test results before enrolling.

Such a student needs all the materials required of a regular candidate; in addition, the high school counselor will be asked to speak directly to the question of the student's maturity. The Admissions Committee examines the application using the same criteria as for a senior, with the addition of the statement of maturity.

A Virginia student can arrange with the secondary school principal to be graduated from high school at the end of the freshman year at Mary Washington by using College courses to fulfill a maximum of two high school credits.

Fees and Assistance

Semester Fees and Expenses

The fees outlined in this section have been approved by the Board of Visitors and are effective for the 1980-81 fiscal year. Any changes from this schedule of fees will be announced immediately.

Questions about fees and payment procedures should be directed to the Office of Student Accounts, George Washington Hall, telephone (703) 899-4631.

Questions about financial assistance and general college expenses should be forwarded to the Dean of Admissions and Financial Aid, Room 303, George Washington Hall, telephone (703) 899-4681.

Full-time Residential Students. The fee schedule below is for a student carrying 12-18 semester credit hours. A student carrying more than 18 semester credit hours must pay a tuition overload fee for each additional credit hour (see next page).

1980-81 Fees	Year Total	Per Semester
Virginia Students		
Tuition	$ 788.00	$ 394.00
Comprehensive Fee*	82.00	41.00
Residential Fee	1,115.00	557.50
Board	840.00	420.00
Total Virginia Students	$2,825.00	$1,412.50
	Year Total	Per Semester
Non-Virginia Students		
Tuition	$1,633.00	$ 816.50
Comprehensive Fee*	82.00	41.00
Residential Fee	1,115.00	557.50
Board	840.00	420.00
Total Non-Virginia Students	$3,670.00	$1,835.00

The residential fee includes infirmary services; however, any prescribed medication is charged to the student's account.

The board charge includes three meals a day, seven days a week, throughout the academic session. All residential students must participate in the board plan; no partial plans are available.

Full-time Non-Residential Students.

1980-81 Fees	Year Total	Per Semster
Virginia Students		
Tuition	$ 788.00	$ 394.00
Comprehensive Fee*	82.00	41.00
Total Virginia Students	$ 870.00	$ 435.00
	Year Total	Per Semester
Non-Virginia Students		
Tuition	$1,633.00	$ 816.50
Comprehensive Fee*	82.00	41.00
Total Non-Virgina Students	$1,715.00	$ 857.50

*Comprehensive Fee. The comprehensive fee is used to support student organizations and activities, athletic programs, and a variety of concerts, movies, and other events to benefit the student body. Most of these activities are provided without additional charges to the student.

Part-time Students. Part-time students register for fewer than 12 semester credit hours. Virginia students are charged $28 per credit hour and non-Virginia students, $56 per credit hour.

Part-time students also pay a non-refundable $15 special student registration fee which permits enrollment in fall and spring semesters.

Students participating in the off-campus teacher training program who are part-time are charged on the basis of the number of credits for which the student is enrolled at Mary Washington, A non-refundable fee of $100 is charged at the time a student-teaching application is submitted and will be credited to the account if the student enrolls in the course.

Part-time students are not ordinarily eligible for infirmary or dining hall services, or admission to those events covered by the Comprehensive Fee. A part-time student may participate in one or all of these services by paying the appropriate fee at registration. Use of these services will depend on their availability at the time of the request.

Other Required Fees. Application Fee — Degree Seeking Applicants. A non-refundable fee must accompany the application for admission from a first-time undergraduate, degree seeking applicant. This fee is applied to the cost of processing the application for admission or the form for continuance. It is entirely separate from other fees, is not refundable, and cannot be deducted from other charges.

The fee applicable for 1980-82 is:

Applicants for the Academic Year 1980-81 $10.00
Applicants for the Academic Year 1981-82 $15.00

Contingent Fee. All residential students must pay a $100 contingent fee upon initial enrollment to the College. This fee is in addition to the fees outlined above and is included in the bill for the first semester, and is due with the first payment. The contingent fee will be applied against damage charges, outstanding balances, etc. Total deposit or balance in account is refunded upon graduation or withdrawal from the College.

Declaration to Continue Processing Fee. A nonrefundable fee of $10 must be paid by all undergraduate degree-seeking students (except BLS students) returning to or continuing in the College.

Other Fees

Late Payment Fee. A fee of $25 will be charged to those students whose accounts are not paid in full by the published deadline date for payment of fees.

Tuition Overload Fee. A full-time student registered for more than 18 semester credit hours is required to pay an additional fee. For Virginia students the charge is $28 per credit hour for each credit hour exceeding 18 and $56 per credit hour for non-Virginia students.

Returned Check Fee. There is a service charge of $7.50 for each check returned for insufficient funds or similar reasons. A cashier's check is then required in place of the returned check.

Audit Fee. Part-time students may audit a course for no credit on a space available basis for a fee of $15 per credit hour.

Credit-by-Examination. Degree seeking students may take special or individually prepared examinations for which credit is awarded for a fee of $45.

Riding Fee. Classes in horsemanship are available and require payment of a special instructional fee. Transportation is available at an additional fee.

Junior Year Abroad Fee. Students planning Junior Year Abroad must pay a program service fee of $25 per semester for advising, counseling, and other administrative detail required for this program.

Speech Pathology Fee. Students leaving the College to complete the fourth year in Speech Pathology must pay a program service fee of $50 prior to enrolling in the cooperating institution.

Medical Technology Fee. Students pursuing the fourth year of Medical Technology at a cooperating institution shall pay the established tuition rates at Mary Washington College, if tuition is not charged by the cooperating institution, or shall pay the difference between the tuition charged by the cooperating institution and the tuition at Mary Washington College, if tuition of the cooperating institution is less than the Mary Washington College tuition.

Bachelor of Liberal Studies Life/Work Portfolio. BLS candidates will pay a $25 fee for the review of their life/work portfolio.

Senior Citizens. A legal resident of Virginia 60 years of age or older may take courses at Mary Washington at reduced rates provided space is available. A resident having a taxable income not exceeding $5,000 for federal income tax purposes for the preceding year may enroll in courses for credit or non-credit or may audit credit courses (attend classes without receiving grades) at no charge. A Virginia senior citizen with federal taxable income levels exceeding $5,000 may audit credit courses or enroll in non-credit courses without paying general college fees, but must pay general college fees in order to take courses for college credit. The application fee of $15 will be charged an applicant whose taxable income exceeds $5,000.

Terms of Payment

All fees, including room and board, are billed and payable in advance by the semester.

Room and Tuition Deposits. After notification of acceptance for admission or continuance by the Dean of Admissions and Financial Aid, a deposit of $100 is required of a residential student, and a $50 deposit is required of a non-residential student. No student will be assigned a residence hall room until this payment has been received. These deposits are not normally refundable after a specified deadline and are applied to the fees for the regular session immediately following.

Exceptions to the policy will be made only in the most unusual circumstances, as determined by the Comptroller and the Dean of Admissions and Financial Aid.

Statements and Due Dates. Each student is mailed a statement well in advance of the beginning of each semester and payment is due by the date specified on the statement. Any variations from the terms of payment listed below must be approved in writing by the Comptroller prior to the due dates.

If a full-time student has not received a statement of charges and fees by three weeks prior to the beginning of the semester, the student should notify the Office of the Comptroller as soon as possible, so that a statement can be prepared, mailed, and the account paid by the due date.

A late payment fee of $25 will be charged to any student whose full payment has not been received in the Office of the Comptroller by the due date.

At the end of the semester a student's account will include any charges incurred for library fines, lost books, parking tickets, drug costs, lost keys, building and equipment damage, and any other miscellaneous charges not covered by the contingent fee. At this time, any student whose full account has not been settled will not be permitted to take exams, receive grades or transcripts, or be eligible to return to the College until the account is settled.

Scholarship and Loan Awards. If a student is receiving financial aid through Mary Washington College, one half the annual award will be shown on each semester statement. If an award has not been credited on the statement, notify the Office of the Comptroller immediately so that a revised bill may be prepared.

If a student is receiving financial aid from a source other than the College, it is the student's responsibility to insure that notification of the award, its amount, and method of payment have been received in the Office of the Comptroller by the statement due date. Failure to provide such notification could result in a student's account being delinquent.

Delinquent Accounts. Any charge incurred in collecting a delinquent account will be added to the account. This applies, but is not limited to charges by an attorney or collection agency.

Refund of Fees. A student who withdraws from the College during the semester should notify the Office of the Dean immediately upon withdrawal and complete the withdrawal form. A copy of the form will be sent to the Office of the Comptroller and will serve as the basis for withdrawal charges and credits.

All students, full- or part-time, residential or non-residential, must withdraw through the Office of the Dean. Adjustment of charges and credits may be made only by the Office of the Comptroller.

The following charges are applicable for students withdrawing during the semester:

Withdrawal Charges

Semester Basis	1st/15th day of semester	16th/55th day of semester	After 55th day of semester
Tuition	20% of semester charge	50% of semester charge	Full semester charge
Residential Fee*	$100	50% of semester charge	Full semester charge
Comprehensive Fee	20% of semester charge	50% of semester charge	Full semester charge
Board Fee		See Below	

Board Fee. Charges will be assessed on the basis of the number of days in residence at the prevailing board rate for the semester in which the student withdraws.

* For the purpose of determining withdrawal charges, the semester begins with the first day of classes. A residential student withdrawing prior to the first day of classes will be charged the $100 room deposit and board at the prevailing daily rate.

Classification as a Virginia Student

The following explanation of who is eligible to receive reduced tuition charges is a direct quote from the Code of Virginia, Section 23-7 as amended. It became effective July 1, 1977.

For the purposes of this section, the domicile of an unemancipated minor may be the domicile of either parent; provided however, that if one parent has custody, the domicile of an unemancipated minor shall be the domicile of the parent having custody. If there is no surviving parent or the whereabouts of the parents are unknown, then the domicle of an unemancipated minor shall be the domicile of the legal guardian of such unemancipated minor if there are no circumstances indicating that such guardianship was created primarily for the purpose of conferring a Virginia domicile on such unemancipated minor.

Except as provided in Section 23-7.2, no person in attendance at a State institution of higher education shall be entitled to reduced tuition charges unless such person is and has been domiciled in Virginia for a period of at least one year immediately prior to the commencement of the term, semester or quarter for which any such reduced tuition charge is sought.

A person who enrolls in any such institution while not domiciled in Virginia does not become entitled to reduced tuition charges by mere presence of residence in Virginia. In order to become so entitled, any such person must establish that, one year before the date of alleged entitlement, he or she was at least eighteen years of age, or if under the age of eighteen, was an emancipated minor, and he had abandoned his or her old domicile and was present in Virginia with the unqualified intention of remaining in Virginia for the period immediately after leaving such institution and indefinitely thereafter.

A person who is classified or classifiable at the date of his or her marriage as eligible to receive the privileges herein described, may receive or continue to receive such privileges until he or she abandons his or her Virginia domicile other than through any presumption of law attaching to the ceremony of marriage.

A student who is not a member of the armed forces and who is not otherwise eligible for reduced tuition charges and whose spouse or parent is a member of the armed forces stationed in this State pursuant to military orders shall be entitled to reduced tuition charges if such spouse or either parent, for a period of at least one year immediately prior to and at the time of the commencement of the term, semester, or quarter for which reduced tuition charges are sought, has resided in Virginia, been employed full-time and paid personal income taxes to Virginia. Such student shall be eligible for reduced tuition through such parent under this section only if he or she is claimed as a dependent for Virginia and federal income tax purposes. Such student shall be entitled to reduced tuition charges so long as such parent or spouse continues to reside in Virginia, to be employed full-time and to pay personal income taxes to Virginia.

Entitlement to reduced tuition charges must be established by convincing evidence and the burden of establishing entitlement shall be on the person claiming such entitlement.

The State Council of Higher Education for Virginia shall, in conjunction with the Office of the Attorney General, seek to ensure that all State institutions of higher education will apply uniform criteria in determining eligibility for reduced tuition charges.

Financial Aid

Mary Washington College provides grants, loans, work assignments or combinations of these to students who demonstrate a need for financial assistance in meeting college expenses. Approximately 900 students share nearly 1.3 million dollars in financial assistance each year at Mary Washington.

Recipients of assistance are selected on the basis of financial need and academic achievement, except for recipients of the Regional Scholarship, which is based solely on merit. Financial assistance is provided without regard to race, color, religion, physical disability, national origin, political affiliation, marital status, sex, or age. In order to be eligible for federal and state asssistance, students must be making satisfactory academic progress toward a Bachelor's degree. This means that the student must remain eligible to enroll with at least half-time status. Part-time students, registered for fewer than six hours per semester, are not eligible for consideration. Where the financial needs of the applicants exceed available College resources, those applicants who demonstrate the greatest need will be given priority.

Within the last five years, the College has met successfully the financial need of its students as determined by the College Scholarship Service.

The policy of the College is to provide greater grant resources to those students who have the greatest need. Listed below are some examples from the 1979-80 session. It is also the College's policy to provide campus-based assistance not to exceed a student's direct educational costs which is defined as the sum total of room/board, tuition, fees and books ($2910 for the 1979-80 session).

	Demonstrated Need	Loan	Award Grant	Work
Student A	$ 500	$350	$ 150	—
Student B	$1000	$210	$ 350	$440
Student C	$2000	$460	$1100	$440
Student D	$3000	$370	$2100	$440

Awards, ranging from $100 to amounts covering fees, books, tuition, room and board are made for an academic session. The College reserves the right to adjust the aid awarded if a student's financial situation is changed by a resource or job received subsequently from outside sources, or by a material improvement in the finances of the applicant or applicant's family. Financial aid from Mary Washington College is not available to students who are studying abroad. A returning student must re-apply for financial assistance every year, and the amount of aid may vary depending upon the parents' financial circumstances, the amount of resources available to the College, and the student's academic record.

All assistance awarded is based on demonstrated financial need as determined by the College Scholarship Service (CSS) of which the College is a member. A dependent or independent student seeking such assistance must file with the CSS a completed copy of the Financial Aid Form (FAF).

The FAF may be obtained by entering freshmen from their secondary schools and by upperclassmen from the Office of Admissions and Financial Aid. Transfer students are also required to have a financial aid transcript forwarded from their previous college.

For incoming freshmen and transfer students, March 1 is the deadline for the College's *receipt* of the FAF. Therefore, an applicant should file this form with the CSS by February 1 but not earlier than January 1. Once the College has received an analysis of the FAF, it will send the student an Application for Financial Assistance which must be returned within two weeks. Award notifications are sent in mid-April to those students submitting timely applications.

A currently enrolled student must file both the College's Application for Assistance and the FAF by March 31. These forms are available in the Office of Admissions and Financial Aid.

All financial aid applicants are required to apply for a Basic Grant as well as for the College's financial aid programs. This can be accomplished concurrently through the submission of one application called the FAF or VFAF. Virginia residents are asked to submit the VFAF to the State Council of Higher Education also in order to receive consideration for the College Scholarship Assistance Program grant.

Students receiving financial assistance, with the exception of day and independent students, are not allowed to register motor vehicles at Mary Washington College. The reason is that the expense incurred in operating a vehicle at college should be directed toward college costs and not toward an unnecessary incidental expense of a vehicle. Exceptions to this policy will be made only for reasons of health or academic necessity, but the student must receive prior written approval for the exception from the Financial Aid Officer before registering the vehicle. Otherwise a standard deduction in assistance will be assessed.

Students receiving financial assistance are expected to help themselves through part-time and summer employment and by borrowing against future earnings. Students receiving aid in 1980-81 are expected to contribute to college costs from 1980 summer earnings as follows: Freshmen and sophomores — $600; juniors and seniors — $700. Summer employment contributions are subject to revision annually.

College Scholarships and Grants

All scholarship and grant recipients must maintain at least good standing or better, as stipulated by the scholarship, and make normal progress toward a degree.

Regional Scholarship Program. Each spring, alumni committees select 25 outstanding and promising entering freshmen students as Regional Scholars, 20 of whom will come from Virginia's 10 Congressional Districts and five from among out-of-state nominees. These scholars receive four-year $1,000 honor scholarships in recognition of superior academic preparation and potential for achievement. To retain this scholarship, a student must maintain a grade point average of 2.5 during the freshman year and 3.0 in subsequent years to be eligible for consideration. Students must be nominated by their high school principals or guidance counselors before they may apply for their scholarships. Deadline for nomination is December 15. An applicant for the scholarship must also be an applicant for admission. For further information, please write the Regional Scholarship Program, Office of Admissions and Financial Aid.

Lalla Gresham Ball Scholarships. These scholarships were established by Mrs. Jessie Ball duPont in memory of her mother. An applicant must reside in one of the following counties of Virginia: King George, Westmoreland, Northumberland, Richmond, Lancaster, Essex, or King and Queen. These scholarships may be renewed annually provided the recipient maintains good academic standing (a C or 2.0 overall average) and demonstrates financial need.

Mary Washington College Anonymous Scholarships. These scholarships are awarded annually to students in need of financial assistance, and who maintain satisfactory progress.

State Scholarships. These scholarships are awarded by the College on the basis of demonstrated financial need to regular full-time students who are legal residents of Virginia.

Chi Beta Phi Scholarships. This national honorary scientific fraternity awards annual scholarships to outstanding students majoring in science or mathematics. Preference is given to members of Chi Beta Phi.

The Chandler Scholarship. Algernon B. Chandler, President of Mary Washington from 1919 to 1928, bequeathed a sum to the College. The proceeds are used toward the education of a junior or senior selected on the basis of scholarship and need.

The Michael Houston Memorial Fund. Established in 1973 in memory of Michael Houston, the first Vice President of the College and Associate Professor of History, scholarships are awarded to students whose parents are among the classified personnel of the College.

The Thomas Howard and Elizabeth Merchant Tardy Endowment Fund. This fund was established in 1962 by Mrs. Ida Elizabeth Tardy and his wife, Mary M. Tardy, and from William H. Merchant and his wife, Belle Ashby Merchant.

Jeannine Mary Pfeifle Scholarship. In memory of Jeannine Mary Pfeifle, class of 1979, this $500 scholarship is awarded each year by a College selection committee to a rising senior who is a U.S. citizen. Specifically and in descending order of priority, the recipient shall be a daughter of a U.S. Marine serviceman, daughter of a U.S. Navy serviceman, the son of a U.S. Marine serviceman or the son of a U.S. Navy serviceman.

Carrol H. Quenzel Memorial Scholarship Fund. Established in memory of Dr. Carrol H. Quenzel, former Mary Washington Librarian and Professor of History, these annual scholarships are awarded to deserving junior and senior students. Preference is given first to those who worked in the previous semester or who are working in the current semester in the Library, and next, to students majoring in history.

Lynn Ruby Memorial Scholarship. Established in memory of Lynn Ruby '68, this award is available first to graduates of Woodbridge Senior High School, Woodbridge, Virginia, and then to residents of the State of Ohio.

Minnie Rob Phaup Memorial Scholarship. Established in memory of Minnie Rob Phaup, former member of the Mary Washington College faculty, this scholarship may be awarded to an outstanding junior or senior in psychology or for graduate study in psychology.

Maurine Arnott Scholarship. This scholarship was established by a bequest from Maurine Arnott to aid worthy and needy students, with preference given to female students.

Martin Luther King Memorial Scholarship. Established by members of the College community following the assassination of Dr. King, this scholarship is awarded to a financially needy student selected by the Office of Admissions and Financial Aid.

Albert R. Klein Memorial Scholarship. This scholarship was established in memory of Dr. Albert R. Klein, former Chairman of the Department of Dramatic Arts and Speech. Preference is given to students pursuing a major or concentration in drama or speech.

Federal and State Grants

Basic Educational Opportunity Grant. The Basic Education Opportunity Grant Program was designed by the Federal government to provide financial assistance for those who without such assistance could not attend college. Basic grants are intended to be the floor of a financial aid package and may be combined with other forms of aid to meet the cost of education. The amount of a Basic Grant is determined by student and family financial resources.

Unlike a loan, a Basic Grant (BEOG) does not have to be repaid. Awards range between $200 and $1,800. Applications are available in the secondary schools and in the College's Office of Admissions and Financial Aid, or application may be made by submitting an FAF to the CSS.

Supplementary Educational Opportunity Grants. Established by the Higher Education Act of 1965 and subsequent amendments, these grants of $200 to $1,500 are awarded to students having exceptional financial need who otherwise would not be able to attend the College. These awards must be equally matched by other College aid. Recipients must maintain satisfactory academic progress.

The Virginia College Scholarship Assistance Program Grant. The Virginia College Scholarship Assistance Program provides need-based grants to Virginia students enrolled in Virginia public and private institutions of higher learning. The program's purpose is to serve as one means of guaranteeing that financial conditions will not prevent the Commonwealth's college-age students from gaining access to higher education. VFAF applications usually must be filed no later than March 31 with the State Council of Higher Education for Virginia. These applications are available in secondary schools and in the College's Office of Admissions and Financial Aid.

Loans

MWC Student Aid Discretionary Loan Fund. Established in 1971 by the Cap and Gown Chapter of Mortar Board, this fund assists currently enrolled students in need of a cash sum. Contact the Office of the Dean of Admissions and Financial Aid for further information on these small, interest-free, short-term loans.

The National Direct Student Loan Program. Funds for this program are provided jointly by the Federal government and the College. A borrower must carry at least six credit hours per semester, need the amount awarded, be capable of maintaining satisfactory academic progress, and be a citizen or permanent resident of the United States. The amount of each loan is determined by the Financial Aid Officer upon review of the Financial Aid Form.

No interest on the loan will accrue to the beginning of the repayment period, which begins nine months from the date the borrower ceases to carry at least six credit hours per semester. Interest thereafter is paid at the rate of three percent annually on the unpaid balance.

The Guaranteed Student Loan Program. The Guaranteed Student Loan Program allows eligible students to borrow funds to meet college expenses at an interest rate lower than that for most conventional commercial bank loans. The Federal Government will pay the interest on the loan as long as the student is enrolled at least half-time. The major purpose of the Guaranteed Student Loan Program is to provide loans to students from middle income families who do not qualify for assistance from other sources. Commercial banks, savings and loan associations, credit unions and other similar lending institutions participate in this program. In most cases, the maximum a lending institution will allow a student to borrow is $2,500 per academic year. To be eligible a student must be a United States national, be enrolled in or plan to enroll in six or more credit hours of work and be in good academic standing. Application for these loans is made directly with the lending institution.

Virginia Education Loan Authority. Created by the State of Virginia to provide loans to eligible students who are unable to secure Guaranteed Student Loans from private lenders. Loans are made directly to the student interest-free as long as the student maintains at least half-time status. Repayment of the loan at 7% simple interest begins 9 months after student ceases less than half-time study. Applications are available in the Office of Admissions and Financial Aid.

Student Employment

The College offers many opportunities for part-time employment. Demonstrated need and the ability to perform the job are primary factors in awarding an assignment. It is not necessary to demonstrate financial need to be eligible for campus employment. Most positions, which include those in the Library, residence halls, laboratories, dining hall and faculty offices, pay about $750 to $950 for the nine-month sessions. Inquiries should be directed to the Office of Admissions and Financial Aid, Box 1098, College Station, Fredericksburg, Virginia 22401. The office is located in Room 303, George Washington Hall. Application for student employment should be made by March 31.

College Work-Study Program. Employment is available through this program to qualified full-time students and those carrying at least six credit hours per semester, who have demonstrated financial need. Students usually work from 10 to 15 hours per week either in on-campus or off-campus programs. Opportunities are also available for full-time summer employment in public or other non-profit organizations throughout the State. Net earnings from this program, called The Virginia Program, are to be used in meeting college expenses. CWS resources are awarded to students who demonstrate the greatest financial need. Address inquiries to the Office of Admissions and Financial Aid, Box 1098, College Station, Fredericksburg, Virginia 22401. The office is located in Room 303, George Washington Hall.

Special Forms of Assistance

Special funds, not administered by the Office of Admissions and Financial Aid, are available to assist students with their academic pursuits as follows.

Annie Fleming Smith Scholarship Fund. This scholarship was established by Mrs. Elsie Ball Bowley in memory of Mrs. Annie Fleming Smith whose efforts made possible the preservation of Kenmore, the home of George Washington's sister. The recipient must devote to the Kenmore Association as much time and service as the authorities of Mary Washington prescribe. In awarding this scholarship, primary consideration is given to students from the Virginia Northern Neck, consisting of King George, Westmoreland, Richmond, Lancaster and Northumberland counties. Inquiries should be addressed to the Dean of the College.

Lt. General Albert J. Bowley Scholarship Fund. This scholarship was established by Mrs. Elsie Ball Bowley in memory of her husband, Lt. General Albert J. Bowley, a distinguished officer of the United States Army. The recipient is to devote to the James Monroe Memorial Library as much time and service as the authorities of Mary Washington College prescribe. Consideration is first given to juniors and seniors who are daughters of service personnel, and then to students from foreign countries (preferably Latin Americans), or to upper-classmen whose major interests and work lie in the fields of history or political science. Inquiries should be addressed to the Dean of the College.

Aurelia B. Walford Scholarships in Music. Established by the will of Mrs. Walford, these scholarships are awarded annually to entering students who intend to major in music. Awards are made on the basis of academic merit and performance skills.

J. Binford Walford Scholarships in Architecture. Established by the will of Mrs. Aurelia B. Walford, these scholarships are awarded annually to entering students who have expressed career interests in architecture and/or architecture related studies. Awards are based on academic merit and an intention to pursue architectural studies.

Courses of Study

Course titles and numbers are given in bold-face type, followed in parentheses by the number of semester credit hours. At the right-hand margin is a capital letter in parentheses indicating how the course may be scored toward degree requirements: (a) — Literature; (H) — Humanities; (S) — Social Science; (N/M) — Natural Science and Mathematics. If no designating letter in parentheses appears, the course may usually count only toward electives or diversificaton.

In some course listings information is given concerning the year or semester during which the course is taught. Since the course offering varies from semester to semester, the student should consult the schedule of courses, issued prior to the beginning of each semester, for specific semester offerings. The schedule of courses also gives the number of class meetings per week, the time and place of classes, and the name of the instructor. Before enrolling in a course the student should check the listed prerequisites.

Course offerings are divided into lower level (100 and 200) and upper level (300 and 400). Courses numbered 100 through 199 are usually regarded as elementary or introductory. Courses numbered 200 through 299 usually assume prior study or some competence in the subject, either in secondary school or in college. Courses numbered 300 through 498 are advanced courses and usually assume either previous course work or special competence in the field. Courses numbered 499 are interships.

Continuous courses, where two semesters are listed in sequence, are of three types:

if the two semesters are linked with a hyphen, the course is a year course for which no credit toward graduation is given for the first semester until the second semester is successfully completed;

if the two semesters are not hyphenated but the course description says "only in sequence," the material covered in the second semester depends upon the first semester. The two semesters must be taken in sequence, but credit for the first semester is not contingent upon completion of the second semester;

if the two semesters are neither hyphenated nor designated only in sequence, one or both semesters may be taken in any order.

Individual study courses offer learning opportunities in areas or subjects not covered by regular courses.

American Studies

Department of History and American Studies, Mr. Thomas, Career Adviser

The American Studies program is interdisciplinary in nature, designed to provide students with a flexible, multi-faceted approach to the study of American society. Since the major provides much latitude in the selection of courses, students are encouraged to work closely with the Career Adviser in choosing courses which will form a cohesive program.

The American Studies seminars, ordinarily taken in the junior and senior years, help students to integrate courses in the various areas into a meaningful understanding of American culture. While the seminars range broadly across American history, their emphasis is upon the late 19th and 20th centuries, with the aim of identifying and analyzing major characteristics of modern technological society, clarifying its values and assumptions, and relating the present to the past and future. The seminar method of instruction is central to the program, and offers each student ample opportunity to participate fully in the learning process.

The American Studies major provides excellent preparation for students interested in law, journalism and communications, library science, museum work, teaching, and many areas of public service.

Requirements for the Major

Core Courses: American Studies 301, 302, 401, 402.

In Other Subjects: 24 credits from five main areas: American history, American literature and philosophy, American social sciences, American fine arts, and non-American civilization; no more than 6 credits in any one area; courses to be selected in consultation with Career Adviser.

301 — Issues in Contemporary American Culture (3) (S)

An examination of selected current issues in American culture. Specific issues will vary from year to year.

302 — The Fine Arts in America (3) (H)

Examples of modern music, dance, and drama are studied to illustrate the role of fine arts in American culture.

401 — Mass Media and American Culture (3) (S)

A study of the uses and influences of mass media in shaping social values. Emphasis on television and journalism.

402 — Impact of Darwin and Freud on American Thought (3) (S)

An examination of the influences of social Darwinism and psychoanalytic theory on 20th century American thought.

491 — Individual Study (3) (S)

Directed individual research on problems in American studies, as approved by the Career Adviser.

499 — Internship

Supervised off-campus experience, developed in consultation with the Career Adviser. Credits variable.

Anthropology

Department of Anthropology, Geography and Sociology: Miss Williamson, Career Adviser

Courses in anthropology are designed to acquaint students with the varieties of human culture and society, and with the different ways in which the study of man can be approached: physical, archaeological, sociocultural, and linguistic. **Anthropology 101 is prerequisite for all other courses except 102 and 201, or by permission of the instructor.**

101 — Introduction to Cultural and Social Anthropology (3) (S)

How primitive peoples organize their worlds. Examination of various basic concepts in a number of different societies. Prerequisite for all upper-level courses except by permission of the instructor.

102 — Introduction to Physical Anthropology and Archaeology (3) (S)

Physical: primatology, genetics, human evolution, and human varieties. Archaeology: objectives and techniques; the course of cultural evolution to urbanized life.

201 — Ethnography of North American Indians (3) (S)

Various Indian societies from culture areas of the Arctic, Sub-Arctic, Northwest Coast, Southwest, Plains, and Eastern North America; related theoretical problems.

202 — Ethnography of South Pacific Peoples (3) (S)

Prerequisite: Anthropology 101. Societies and cultures from the South Pacific, Philippines, Melanesia (including New Guinea), Micronesia, and Polynesia (including New Zealand).

301 — History of Culture Theory (3) (S)

Prerequisite: Anthropology 101. Examination of theories of the analysis of culture from the beginnings of anthropological thought until the present. Alternate years; offered Fall 1981.

312 — Women in Anthropology (3) (S)

Prerequisite: Anthropology 101. Study of women both as anthropologists and as objects of anthropological investigation in a number of different social contexts.

322 — Symbols and Communications (3) (S)

Prerequisite: Anthropology 101. How anthropology studies the communications used by society and culture (symbols, signs, signals) with emphasis on symbols: what they are and what forms they take. Alternate years; offered Fall 1980.

491, 492 — Individual Study and Research (3, 3) (S)

Individual work under the guidance of the instructor. By permission of the instructor.

499 — Internship (S)

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Art

Department of Art; Mr. Dreiss, Career Adviser for Art History; Mr. DiBella, Career Adviser for Studio Art

To foster the study and practice of the fine arts, the Art Department offers traditional academic majors in studio art and the history of art.

The purpose of the studio art major is to teach fundamental skills, increase aesthetic sensibilities, and further the student's individual development in the following media: drawing, painting, photography, pottery, printmaking and sculpture. The art history major explores in chronological sequence the entire span of Western art and its contribution to our cultural heritage. In addition to slide lectures and the availability of an exceptional art library, students regularly take faculty-supervised tours to museums in Washington, D.C., Baltimore, and Richmond. An internship program provides opportunities for work experience prior to graduation.

There are career opportunities for art majors in graduate studies, the fine arts, museum and slide curatorships, historic preservation, teaching, conservation and restoration, editing, gallery work, and medical and technical illustration.

ART HISTORY

Requirements for the Major

In Major Subject: 114, 115; 30 additional credits in Art History courses including at least one 400-level research-oriented course; one course from each of the following chronological periods: classical, medieval, renaissance, baroque and modern.

Recommended: French and German are recommended for students interested in graduate work.

114, 115 — Introduction to the History of Art (3, 3) (H)

Survey of Western architecture, sculpture, and painting. Art 114, prehistoric to 1400 Art 115, 1400 to the present May be taken only in sequence.

220 — History of Graphics (3) (H)

Prerequisites: Art 114, 115. The history of European prints and printmaking from the 15th century to the present. Alternate years; offered Fall 1980.

310 — Greek Art (3) (H)

Prerequisite: Art 114. Development of Greek art from the early Iron Age through the Geometric, Archaic, Classical and Hellenistic periods.

311 — Roman Art (3) (H)

Prerequisite: Art 114. Roman art from the Italo-Etruscan period to the end of the Roman Empire.

320 — Byzantine and Early Medieval Art (3) (H)

Prerequisite: Art 114. Development of Christian art in the Eastern and Western Empires through the first Golden Age of Byzantine art and the reign of Charlemagne to the year 1000. Alternate years; offered Fall 1980.

321 — Medieval Art in France and England, 1000 to 1400 (3) (H)

Prerequisite: Art 114. Sources and formulation of medieval art in northern Europe through the Gothic style in architecture, sculpture, and manuscript illumination. Alternate years; offered Spring 1981.

322 — Medieval Art in Byzantium and Italy, 1000 to 1400 (3) (H)

Prerequisite: Art 114. The second Golden Age of Byzantine art; the painting, sculpture, and architecture of the Italian Proto-Renaissance. Alternate years; offered Fall 1981.

330 — Northern European Art, 1400 to 1600 (3) (H)

Prerequisites: Art 114, 115. Painting in the Lowlands, France, and Germany from the late medieval period through the 16th century. Alternate years; offered Fall 1981.

331 — Italian Renaissance Painting (3) (H)

Prerequisites: Art 114, 115. Painting of the Italian Renaissance; its origins in the social and intellectual climate of the period. Alternate years; offered Spring 1982.

332 — Italian Renaissance Architecture and Sculpture (3) (H)

Prerequisites: Art 114, 115. Major works of architecture and sculpture in Renaissance Italy including the historic and theoretical bases for these arts. Alternate years; offered Fall 1980.

340 — Northern Baroque Art (3) (H)

Prerequisites: Art 114, 115. 17th century art in the north of Europe with emphasis on Rubens, Rembrandt, landscape painting, Versailles. Offered alternate years.

341 — Italian Baroque Art (3) (H)

Prerequisites: Art 114, 115. Painting, architecture, and sculpture of 17th century Italy; Caravaggio, Bernini, Borromini, the Baroque ceiling. Alternate years; offered Spring 1981.

342 — Eighteenth Century Art (3) (H)

Prerequisites: Art 114, 115. Concentration on the French Rococo, its influence on Continental and British art and its evolution into Neoclassicism. Offered alternate years.

343 — Georgian Art (3) (H)

Prerequisites: Art 114, 115. British art and aesthetics; portraiture, landscape painting and gardening; Palladianism, Britain as a font of Romanticism. Offered alternate years.

350 — Nineteenth Century Art (3) (H)

Prerequisites: Art 114, 115. Emphasis on French painting and sculpture through Neoclassicism, Romanticism, Realism, Impressionism, and Post-Impressionism.

351 — Twentieth Century Art (3) (H)

Prerequisites: Art 114, 115. Major movements in modern art.

352 — American Art (3) (H)

Prerequisites: Art 114, 115. A review of American painting, sculpture, and architecture with emphasis on the 19th and 20th centuries. Alternate years; offered Spring 1981.

353 — Modern Architecture (3) (H)

Prerequisites: Art 114, 115. Form, style, and technology as related to historical sources and selected individuals. Alternate years; offered; Spring 1981.

360 — Architecture of Colonial America (3) (H)

Prerequisites: Art 114, 115. Emergence of an indigenous American architecture with emphasis on regional and cultural influences, to 1800; will not fulfill any art history major area requirements. Alternate years; offered Fall 1980.

470 — Special Studies in Art History (3) (H)

Prerequisites: Art 114, 115. Concentration in seminar format on an individual artist, specific problem, a limited time period, or an iconographic theme; for art history majors and other qualified students.

491, 492 — Individual Study in Art History (3, 3) (H)

Prerequisites: Art 114 and 115 and at least three chronological area courses in the major; for art history majors. Faculty approval of research project; oral presentation and major paper.

499 — Art History Internship (H)

Supervised off-campus experience developed in consultation with the art history faculty. Credits variable.

STUDIO ART

Requirements for the Major

In Major Subject: 101, 102; 24 additional credits in Studio Art courses of which at least 12 must be at the 300-400 level; at least one course in each of the following media: painting, pottery, printmaking, and sculpture.

In Other Subjects: Art History: 12 credits in Art History courses including 114, 115.

101 — Two-Dimensional Design (3) (H)

Basic study of design elements (line, shape, texture, value, color) used in visual communication, both figurative and nonfigurative.

102 — Three-Dimensional Design (3) (H)

Experiments in the use of materials and elements of design related to the development of three-dimensional structures.

111, 112 — Pottery and Handbuilding (3, 3) (H)

Practice in the use of the pottery wheel, exploration of forms and textures attainable through wheel and hand-building processes.

170 — Beginning Painting and Drawing (3) (H)

Basic methods and techniques of realistic and abstract art; investigation of light and dark color, line, composition, and design. (May not be used to satisfy studio art major requirement in painting.)

180 — Silkscreen (3) (H)

Introduction to serigraphic techniques and materials in a fine art mode. (May not be used to satisfy studio art major requirements in painting or printmaking.)

211, 212 — Life Drawing* (3, 3) (H)

Prerequisite: Art 101. Various approaches to drawing the human body and other organic figurative and non-figurative imagery.

221, 222 — Drawing and Composition* (3, 3) (H)

Prerequisite: Art 101. Drawing from life. Abstract and figurative composition in various media.

231, 232 — Beginning Sculpture* (3, 3) (H)

Prerequisite: Art 101 and 102. Study and construction of volume and mass using figurative and non-figurative subject matter in a variety of plastic and carving media including plaster modelling and casting.

311, 312 — Advanced Pottery* (3, 3) (H)

Prerequisite: Art 111 or 112. Further exploration of wheel-thrown forms, hand-building processes, and sculpture; experiments with glazing and firing.

321 — Fundamentals of Printmaking* (3) (H)

Prerequisite: one year of drawing. Processes involved in making multiple images; intaglios, collagraphs, reliefs.

322 — Advanced Printmaking* (3) (H)

Prerequisite: Art 321. Lithography and further exploration of intaglios, collagraphs, and reliefs.

331 — Marble Carving* (3) (H)

Prerequisite: Art 231 or 232. Figurative and conceptual approaches to form using marble as the basic carving medium

332 — Woodcarving* (3) (H)

Prerequisite: Art 231 or 232. Figurative and conceptual approaches using hardwoods such as cherry, walnut, oak, or maple as the basic carving medium.

343 — Principles of Painting* (3) (H)

Prerequisite: one year of drawing. Introduction of techniques and materials in the study of pictorial organization.

344 — Advanced Painting* (3) (H)

Prerequisite: Art 343 or permission of instructor. Further development in the problems, concepts, and techniques of painting.

353 — Photography (3) (H)

Orientation in darkroom techniques, use of the camera, and other equipment; emphasis on photography as a fine art. By permission of instructor.

470 — Special Studies in Studio Art (3) (H)

Special courses in an area of studio art selected by the studio faculty after consultation with the students. Advanced students only.

495, 496 — Individual Study in Studio Art (3, 3) (H)

Independent work under the supervision of a member of the studio art faculty. By permission of instructor.

499 — Internship (H)

Supervised off-campus experience developed in consultation with the studio art faculty. Credits variable.

*Prerequisites can be waived at the discretion of the instructor.

Biology

Department of Biological Sciences; Miss Johnson, Career Adviser

The Department strives to create an atmosphere in which students can develop a strong background in the sciences and the intellectual independence to build on that foundation. Three major programs, Biology, Environmental Earth Sciences, and Medical Technology are offered. The courses offered by the department and supporting disciplines provide such diversity that a number of areas of concentration are offered within the major programs.

Laboratory work enables the student to learn techniques and obtain data which support theories explored in lecture. Equipment and facilities, all of which are for student use, include a scanning, recording spectrophotometer, an ultracentrifuge, rerpirometers, research-grade microscopes, tissue culture facilities, a radioisotope laboratory, physiographs, a phytotron, and an aquatic studies laboratory. Equipment for ecological studies in terrestrial, fresh water and marine environments includes live animal traps, plankton and insect nets, seines, a small fleet of boats including one equipped for trawling and dredging and fresh and salt water aquaria. Collections of microscope slides, skeletons, preserved animals and an herbarium collection of pressed plants are also on hand.

Courses numbered 481 and 491 offer opportunities to pursue studies beyond the scope of listed courses. This may include library research and field and laboratory investigation. These courses may be used for honors. Experience and knowledge gained outside the College, with proper supervision, may be used for academic credit under 499 — Internship.

Requirements for the Major

In Major Subject: 28 credits in Biology courses beyond 121-122, including 342 or 441, 442, and 450.

In Other Subjects: Chemistry, 8 cr hr.

Recommended: Biology 231 and 321.

121 — Biological Concepts I (4) (N/M)

An introduction to biological principles as they apply to plants and animals. Laboratory.

122 — Biological Concepts II (4) (N/M)

Survey of the plant and animal kingdoms with emphasis on morphology and taxonomy; survey of the human organ systems. Laboratory.

202 — Heredity and Evolution (3) (N/M)

Prerequisite: Biology 121. Principles of heredity, their application to evolutionary theory, and their social implications. For non-majors only, except by permission of Chairperson. Laboratory.

221 — Anatomy of the Chordates (4) (N/M)

Prerequisite: Biology 121; recommended: Biology 122. A comparative study of the major systems of representative chordates. Laboratory.

231 — Botany (4) (N/M)

Prerequisite: Biology 121, 122. Survey of the plant kingdom with emphasis on morphogenetic description, life histories, and evolutionary relationships. Laboratory.

250 — Bioethics (2)

Prerequisite: Biology 121. Selected topics considered from the standpoint of their biological consequences and ethical implications for man.

251S — History of Biology (3)

Prerequisite: Biology 121, 122. Chronological development of selected biological theories and their impact on contemporary biology.

252 — General Ecology (3) (N/M)

Prerequisite: Biology 121. A study of the relationships of plants and animals to their environment and the maintenance of balance in nature. For non-majors except by permission of chairperson. Spring 1982.

302 — Embryology of the Chordates (4) (N/M)

Prerequisite: Biology 121; recommended: Biology 122, 221. The development of representative chordates. Laboratory.

311 — Plant Ecology (4) (N/M)

Prerequisites: Biology 121, 122. Ecological principles as applied to plants including major biomes, plant succession, competition, environmental parameters, and methods of data collection and evaluation. Laboratory. Fall 1982.

312 — Plant Physiology (4) (N/M)

Prerequisites: Biology 121, 122. Experimental and theoretical treatment of the functional mechanisms in plants. Laboratory. Fall 1981.

321 — Invertebrate Zoology (4) (N/M)

Prerequisite: Biology 121, 122. Survey of invertebrate phyla emphasizing structural characteristics, life histories and evolutionary relationships. Laboratory.

322 — Animal Ecology (4) (N/M)

Prerequisites: Biology 121, 122, and Chemistry, 8 cr. hr. The relationship between animals and their environment. Field and laboratory studies include observations of marine, fresh water, and terrestrial animals. Laboratory.

323S — Entomology (4) (N/M)

Prerequisite: Biology 121 or equivalent. Introduction to structure, function and ecology of insects. Students prepare insect collections. Laboratory.

331 — Histology (4) (N/M)

Prerequisite: Biology 121, 122. The preparation and microscopic examination of animal tissues. Study of the relationship between function and structure of tissues and their cells. Laboratory. Spring 1981.

342 — Human Genetics (4) (N/M)

Prerequisite: Biology 121. Application to the human of the principles of heredity. Laboratory.

351 — Laboratory Techniques (4) (N/M)

Prerequisites: Biology 121, 122, and Chemistry, 8 cr. hr. Introduces students to instrumentation used in physiological experiments. The scientific method and experimental design are discussed and used.

352S — Marine Ecology (6) (N/M)

Prerequisite: Biology 121, 122, and Chemistry, 8 cr. hr. A general introduction to the marine environment with emphasis on the biological, chemical and physical aspects of various marine communities. Summer 1981.

360 — Cellular Physiology (4) (N/M)

Prerequisites: Biology 121, 122 and Chemistry, 8 cr. hr. Recommended: Organic Chemistry. Principles of general and cellular physiology. Laboratory.

361 — Comparative Physiology (4) (N/M)

Prerequisites: Biology 121, 122 and Chemistry, 8 cr. hr. A comparative study of physiological systems in animals. Laboratory. Spring 1981.

362 — Comparative Endocrinology (4) (N/M)

Prerequisite: Biology 121, 122 and Chemistry, 8 cr. hr. A comparative study of the endocrine mechanisms in vertebrates and invertebrates. Laboratory. Spring 1982.

363 — Environmental Physiology (4) (N/M)

Prerequisite: Biology 121, 122, and Chemistry, 8 cr. hr. Experimental and theoretical treatment of the role of environmental factors in the physiology of organisms. Spring 1981.

371 — Microbiology (4) (N/M)

Prerequisites: Biology 121, Chemistry, 8 cr. hr. Emphasis is placed on bacteria, their morphology, physiology, nutrition, and ecology. Laboratory.

372 — Parasitology (4) (N/M)

Prerequisite: Biology 121. The structure, life histories, and host relationships of invertebrate parasitic forms. Laboratory.

382, 383 — Human Anatomy and Physiology (4, 4) (N/M)

Prerequisite: Biology 121. The structure and function of the human at cell, tissue and organ system levels of organization. Laboratory.

391 — Immunology (4) (N/M)

Prerequisite: Biology 121, 122, and Chemistry, 8 cr. hr. Introduction to the principles and theories of host defense with emphasis on antibody production, characterization and identification. Laboratory.

441 — Genetics (5) (N/M)

Prerequisites: Biology 121, 122. The structure, function and transmission of genetic material. Laboratory. Open only to majors except by permission of Chairperson.

442 — Evolution (3) (N/M)

Prerequisite: Biology 121, 122. Recommended for senior level students. The history and development of modern evolutionary thought. Open only to majors, except by permission of Chairperson.

450 — Seminar (1) (N/M)

Prerequisites: Biology 121, 122. Readings, reports and group discussions on topics of historic and current biological interest. Open only to majors.

481 — Readings in the Biological Sciences (2) (N/M)

Readings in biological literature selected by the student. The student is guided by a staff member. Open to junior and senior majors by permission of Department.

491 — Special Problems in Biology (3)or(4 for honors) (N/M)

Prerequisite: Biology 481. Individual laboratory or field investigation supervised by a staff member. Open to junior and senior majors with permission of Department.

499 — Internship

Prerequisite: junior or senior major in good academic standing with appropriate background. Supervised off-campus experience, developed in consultation with the department. Credits variable.

Business Administration

Department of Economics, Business and Public Affairs; Mr. Czarsty, Career Adviser

The degree in Business Administration is designed to provide an understanding of the variety of approaches to and the complexities of the managerial process in an ever-changing society, both within and outside the business firm.

The program aims to develop both specific analytical skills and a broad intellectual outlook in students who wish to combine their liberal arts education with course work of intellectual substance which will provide a background for an immediate career in business or for graduate study.

Requirements for the Major

In Major Subject: 18 credits in Business Administration courses including 231, 232, 300, 310, 380, 490.

In Other Subjects: Economics 201, 202, 310, 361; Statistics 200.

Recommended: Economics 321, 442; Speech 300 or equivalent.

231, 232 — Principles of Accounting (3,3)

Fundamental accounting principles and practices involved in the recording and interpretation of accounting data. Only in sequence.

300 — Principles of Management (3)

The fundamentals of management and organization for business operations. Emphasis is placed on the theory of management, authority and responsibility, organization principles, the managerial job, direction and leadership, decision making, policy formation, planning and control.

301 — Organization Theory (3)

Prerequisite: BUAD 300. Formal and informal organizational structure; variables affecting the administration of complex organizations.

302 — Production Systems (3)

Prerequisite: BUAD 300. Managerial procedures in the production process; planning, control, standards, and reports.

310 — Principles of Marketing (3)

Prerequisite: ECON 201, 202 and BUAD 231, 232. The place of marketing in the economic system together with the policies and practices of marketing institutions. Subjects considered include: marketing functions, marketing organization, marketing research, merchandising, channels of distribution, transportation and social regulation of marketing.

311 — Consumer Behavior (3)

Prerequisite: BUAD 310. Analysis of consumer behavior and theories of consumer choice; techniques and problems in predicting consumer behavior.

312 — Retail Management (3)

Prerequisite: BUAD 310. The organization, operation, and management of retail establishments; inventory methods, retail buying and selling.

331, 332 — Intermediate Accounting (3, 3)

More advanced principles of accounting Only in sequence.

333 — Cost/Managerial Accounting (3)

Prerequisite: BUAD 231, 232 or permission of instructor. Fundamental principles and procedures of the analysis of cost systems, cost concepts and behavior, performance measurement, and analytical uses of accounting data for administrative decisions.

341 — Personnel Administration (3)

Prerequisite: BUAD 300. An analysis of the problems and practices in personnel management; selection, placement, evaluation, promotion, and termination.

380 — Business Law (3)

A survey, through the case method approach, of the legal principles and rationale underlying the rights and obligations of business relationships. The Uniform Commercial Code is emphasized

403 — Organizational Behavior (3)

Prerequisite: BUAD 300. Dynamics of organizational behavior in business, interpreted from a behavioral science perspective.

413 — Marketing Research (3)

Prerequisite: BUAD 310. Research in marketing as a tool for the identification, collection, and analysis of information relevant to decision-making by the marketing executive.

434 — Federal Taxation (3)

Prerequisite: BUAD 231, 232 or permission of instructor. An examination of the federal tax structure and the application of tax principles to the solutions of problems.

442 — Labor-Management Relations (3)

Prerequisite: BUAD 341. A survey of collective bargaining process, the labor contract, unionism, impact of labor-management relations on wages, the legal context of labor-management relations and the responsibilities of unions and management.

490 — Business Policy (3)

A senior-level course which is the capstone of the student's study of business administration. Cases concerning administrative management present problems involving the integration of departmental policies into administrative decisions.

491 — Individual Study in Business Administration

Directed individual research on an approved problem in business administration.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Chemistry

Department of Chemistry and Geology;
Mr. Mahoney, Career Adviser

The chemistry program offers a modern curriculum designed for the student planning on graduate, medical or dental school (See Pre-Medical Program), employment in industrial chemistry, secondary school teaching, or for the student desiring to study chemistry within the general framework of a liberal arts and science education. In addition, there are courses which offer considerable opportunities for students in related fields such as biology, the health sciences and environmental earth science. By supplementing the chemistry major with course offerings in related fields, students may acquire a career-focused grouping, e.g., chemistry-mathematics/computer science for chemical engineering and industrial chemistry; chemistry/economics or business administration for industrial chemistry; chemistry-biology for health sciences; chemistry-geology/environmental earth science for positions involving energy or environmental research.

The Department of Chemistry and Geology has well-equipped laboratories to support and reinforce classroom instruction. Facilities include ultraviolet, visible, infrared, nuclear magnetic resonance, atomic absorption and mass spectrometers, and gas chromatographs. Complete emission spectrographic and x-ray laboratories and computer facilities are also available.

Requirements for the Major

In Major Subject: 31 credits in Chemistry courses beyond 111, 112, including 211, 212, 252, 383, 384, 385, 423, 451, 452 and one other upper-level course.

In Other Subjects: Mathematics 221; Physics 201, 202.

105, 106 — Introductory Chemistry (4, 4) (N/M)

An overview of the principles of chemistry with emphasis on practical applications. Laboratory. Only in sequence.

111, 112 — General Chemistry (4, 4) (N/M)

Introduction to the fundamental principles of chemistry and the more important elements and their compounds. Laboratory. Only in sequence.

205 — Essentials of Organic Chemistry (4) (N/M)

Prerequisite: Chemistry 112 or 106. A general survey of carbon compounds including the study of their structure and reactivity. Laboratory.

211, 212 — Organic Chemistry (4, 4) (N/M)

Prerequisite: Chemistry 112. Structural theory and reactivity of carbon compounds. Laboratory.

252 — Analytical Chemistry (4) (N/M)

Prerequisites: Chemistry 112, or 106, and Math 111 or equivalent. Theory and techniques of analytical chemistry including introductory instrumental methods of analysis Laboratory.

317, 318 — Biochemistry (3, 3) (N/M)

Prerequisite: Chemistry 212. The application of chemical principles to the study and understanding of the living state.

319, 320 — Biochemistry Laboratory (1, 1) (N/M)

Prerequisites: Chemistry 212, 252. Corequisites: Chemistry 317, 318. Selected research techniques involving the chemical composition and properties of cells, tissues and organisms.

333 — Environmental Chemical Analysis (4) (N/M)

Prerequisites: Chemistry 252, 205 or 211, 212. Modern laboratory and field methods used in the evaluation of environmental systems. Laboratory.

343 — Inorganic Chemistry (3) (N/M)

Prerequisite: Chemistry 112. Modern theories of atomic structure and chemical bonding and their applications to molecular and metallic structures and coordination chemistry.

383, 384 — Physical Chemistry (3, 3) (N/M)

Prerequisties: Chemistry 112 and Physics 201, 202, Math 221. Thermodynamic, kinetic, quantum mechanical and spectroscopic properties of chemical systems.

385 — Physical Chemistry Laboratory (3) (N/M)

Prerequisite: Chemistry 252. Corequisite: Chemistry 383. Selected experiments involving measurements and evaluation of physicochemical properties of chemical systems.

392 — Instrumental Methods of Analysis (4) (N/M)

Prerequisite: Chemistry 252, 385. Principles and methods of optimization of instrumental methods used in characterizing chemical systems. Laboratory.

411 — Advanced Organic Chemistry (3) (N/M)

Prerequisite: Chemistry 212. Organic reaction mechanisms and the relation of molecular structure to physical and chemical properties.

423 — Experimental Methods in Chemistry (5) (N/M)

Prerequisites: Chemistry 212, 252. Spectroscopic chromatographic and chemical functional group techniques used in characterizing chemical systems. Laboratory.

451, 452 — Seminar (1, 1) (N/M)

Student reports on selected topics in chemistry for oral presentation and discussion.

471 — Advanced Topics in Chemistry (2-3) (N/M)

Prerequisite: permission of the instructor. Advanced treatment of selected topics in chemistry.

491 — Individual Study (1-4) (N/M)

Individual investigation under the direction of a member of the Department. Open to qualified students by permission of the Department.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Classics

Department of Classics, Philosophy and Religion; Miss Hatch, Career Adviser

Classics involves the study of the language and literature of ancient Greece and Rome, as well as the civilization which evolved during the period of Greek and Roman domination of the Mediterranean World. Since many of the ideas and principles which emerged at that time are basic to the heritage of western civilization, courses in Classics are usually applicable to the study of almost all the liberal arts.

Students wishing to major in Classics are offered the choice of a concentration in Latin or the interdisciplinary concentration major in Classical Civilization. In either area, students develop the program — which may include individual study — in consultation with a faculty adviser.

While many department majors include teacher certification on their schedule, other students combine their concentration in Latin or Classical Civilization with studies in related fields, such as philosophy, English, or modern foreign languages. With such a background, graduates have a wide range of opportunities after college, including museum work, archaeology, graduate study, teaching, or translating.

See also listings under *Greek* and *Latin*.

Requirements for the Major

Classical Civilization: 40 credits in approved courses related to classical civilization in Art, Philosophy, Religion, History, English, Archaeology, including 12 credits in Latin or Greek.

201 — Classical Motifs in Literature (3) (L)

Study of the hero's journey and related themes in Homer, Vergil, Tennyson, and Tolkien.

202 — A Touch of Madness: The Greek Tragic Experience (3) (L)

A study of the tragic plays of Aeschylus, Sophocles and Euripides.

301 — Mythology (3) (H)

The principal Greek and Roman myths, with emphasis on their influence in literature and art.

332 — Greek and Roman Civilization (3) (H)

Major facets of Greek and Roman culture and their influence on later western civilization.

385 — Greek Archaeology (3) (H)

Study of archaeological excavations in Greece with emphasis on the problems peculiar to the area.

386 — Roman Archaeology (3) (H)

Study of the excavation of Roman sites both in Italy and other areas of the Mediterranean.

401, 402 — Special Studies in Classical Archaeology (2, 2) (H)

Prerequisites: Classics 385, 386 and some knowledge of Latin and/or Greek. First semester: modern archaeological techniques, preservation of finds, introduction to epigraphy. Second semester: numismatics, small artifacts, and minor arts.

491 — Individual Study in Classical Civilization (1-4) (H)

Individual study under the direction of a member of the staff. By permission of the Department.

Computer and Information Science

Department of Mathematical Sciences and Physics; Mr. Ackerman, Career Adviser

The Department of Mathematical Sciences and Physics offers a major in Computer and Information Science as well as several courses and workshops for the non-major. The offerings are supported by an HP 3000, Data General 1220, and numerous remote terminals and peripheral devices. FORTRAN, BASIC, COBOL and other higher level programming languages are utilized.

A student majoring in computer science has the opportunity to undertake graduate work or pursue a career in many fields including government, industry or teaching.

Requirements for the Major

In Major Subject: 18 credits in Computer and Information Science courses including 211 or 221, 301, 311, 321, 331, and 401

In Other Subjects: 18 credits in approved related courses including Mathematics 221, 325, and Statistics 321.

101 — Introduction to Computers (2)

Introduction to computers; structure and application of computer systems, programming in BASIC language and "hands on" experience.

211 — Programming in COBOL (3)

Computer organization, programming, algorithm development and applications in COBOL.

221 — Programming in FORTRAN (3)

Corequisite: Math 121. Computer organization, programming, algorithm development and applications in FORTRAN.

301 — Introduction to Computer Systems (3)

Prerequisite: CPSC 211 or CPSC 221. Computer structure and machine language, assembly language, addressing techniques, macros, file I/O, segmentation and linkage, assemblers and interpretive routines.

311 — Computer Organization (3)

Prerequisite: CPSC 211 or 221. Basic logic design, coding, number representation and arithmetic, and introduction to computer architecture.

321 — File Processing (3)

Prerequisite: CPSC 211 or 221. File Processing environments, sequential access, data structures and random access using a variety of storage devices.

331 — Operating Systems and Computer Architecture I (3)

Prerequisites: CPSC 301 and 311. Includes such topics as dynamic procedure activation, system structure, evaluation, memory management, process management and recovery procedures.

401 — Organization of Programming Languages (3)

Prerequisite: CPSC 301. An applied course in programming language construction emphasizing the run-time behavior of programs.

411 — Data Structures and Algorithm Analysis (3)

Prerequisite: CPSC 321. Application of analysis and design techniques to non-numeric algorithms which act on data structures and selection of methods for data manipulation.

431 — Operating Systems and Computer Architecture II (3)

Prerequisite: CPSC 331. Continued development of material in CPSC 331.

441 — Theory of Programming Languages (3)

Prerequisite: CPSC 401. A formal treatment of programming language translation and compiler design concepts.

451 — Automata, Computability and Formal Languages (3)

Prerequisite: CPSC 441. A sampling of theoretical computer science, to include finite state concepts, formal grammars, computability and Turing machines.

491 — Individual Study in Computer Science (3)

Prerequisite: departmental permission. Individual study under the direction of a member of the staff. May lead to graduation with Departmental Honors.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Dance

Department of Dramatic Arts and Dance; Miss Graham, Career Adviser.

See *Dramatic Arts* for a statement of the departmental goals and program.

Requirements for the Major

In Major Subject: 36 credits in Dance courses, including two years of Ballet and two years of Modern Dance, 311, 331, 332, 431, 432, and six credits from 350, 351, and 352.

121, 122; 221, 222; 321, 322; 421, 422 — Ballet (1 each semester)

Ballet as a discipline, emphasizing exactness and precision of line, creative expression, and historical reference.

123, 124; 223, 224; 323, 324; 423, 424 — Modern Dance (1 each semester)

Body movement, its relationship to space, time, and force, through improvisation and exploration.

235 — Movement for the Theater (3) (H)

Creative projects in theatrical movement: mime, gesture, space, rhythm, and expression. Alternate years; offered Spring 1982.

241 — Dance Production (3) (H)

Theories and techniques of dance production involving management, budget, sound and music, production design, rehearsal and performance. Course work supplemental with practical production work.

311 — Theories of Movement (3) (H)

Comparison of selected theories of movement such as Laban, Dalcroze, Delsarte, Graham, Humphrey-Weidman, and Wigman. Alternate years; offered Spring 1981.

331 — Compositional Forms (3) (H)

Structure of dance movement, phrases, rhythm, and traditional dance forms.

332 — Dance Styles (3) (H)

Dance related to historical periods in art, drama, and music, utilizing reading, research, films, improvisation, and composition.

350 — Dance History Survey (3) (H)

Dance from the earliest times — Primitive, Greek, Roman, Egyptian, European, Oriental, and Spanish, to the 15th century.

351 — History of Ballet (3) (H)

In-depth study of ballet in France, Italy, Russia, and England from the 15th century to the 20th century. Alternate years; offered Fall 1981.

352 — American Dance Heritage (3) (H)

Readings and research in American dance, including the Indian, Negro, Modern Dance, Contemporary Dance. Alternate years; offered Spring 1982.

353 — Ethnic Dance (3) (H)

Prerequisites: Dance 122, 124. The study of the history and culture of Western and Eastern countries through dance. Performance of selected dances. Alternate years; offered Fall 1980.

400 — Mary Washington Dance Company (1 each semester)

Performance in the Dance Company. Admission by audition. (May also be taken without credit after auditioning). By permission of the Department.

425 — Classical Ballet Variations (3) (H)

Prerequisite: Dance 321, 322, 421, 422 or permission of instructor. Theory and practice of solo variations in traditional classical ballets. Alternate years; offered Spring 1981.

431, 432 — Choreography (3, 3)

Prerequisites: Dance 231, 232 or permission of instructor. In-depth study of selected techniques from compositional forms and dance styles. Opportunity for the student to develop creative potential.

450 — Seminar in Dance (3) (H)

Readings and research in contemporary dance in education, dance therapy, aesthetics, and philosophy.

491, 492, 493, 494 — Individual Study (1-3 each) (H)

Research, choreography, or composition of an approved creative project. By permission of the Department.

499 — Internship (H)

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Drama

Department of Dramatic Arts and Dance; Mr. Kenvin, Career Adviser

The Department offers majors in both dramatic arts and dance. Both majors provide programs on which students can build further professional or graduate work. Techniques, theories, history, and literature are included in both majors. A third major, called Performing Arts is also offered for those wishing to divide their work between dance and drama.

Important in the program is the variety of courses available to students. Also important are the many opportunities students have to perform either in theater or dance and to work on productions, thus learning different phases of the theatrical art. The student-run Tri-Muse Society encourages students interested in both dramatic arts and dance, and there is a chapter of Alpha Psi Omega, a dramatics honorary society.

In addition to student-directed productions in Studio 13, the Department presents four major productions each year, three directed by faculty and one by a student. Among recent productions in the 300-seat Klein Memorial Theater have been *Gypsy, Godspell, The Tempest, Peer Gynt,* and *Kennedy's Children.* The department's summer program in conjunction with The Fredericksburg Summer Theater, has presented such productions as *Plaza Suite,* and *The Sound of Music.*

The Mary Washington College Dance Company, a vital part of campus cultural life, presents performances of modern dance and ballet in the 1700-seat George Washington Auditorium.

Lectures and performances by visiting scholars and artists enrich the program. In recent years, the campus has hosted such artists as Agnes de Mille, Paul Taylor, Nikos Psacharopoulos, Ellen Stewart, Richard Schechner, and Maria Swoboda.

Requirements for the Major

In Major Subject: 38 credits in Dramatic Arts courses, including 211, 212, 221, 222 231, 232, 361, 362, 431, and 432. Majors must also work on all productions of the department in some capacity

211, 212 — World Drama (3, 3) (H)

Selected plays and theatrical developments Introduction to the theater.

221, 222 — Acting (3, 3) (H)

Voice and body training, pantomime, improvisation, creating character, ensemble playing.

231, 232 — Stagecraft (4, 4) (H)

Theories and techniques of designing, building and painting stage settings; organization and operation of production crews. Laboratory.

250S, 251S — Fredericksburg Summer Theater (3, 3) (H)

Apprenticeship, including acting and technical work, in the Fredericksburg Summer Theater.

331, 332 — Playwriting (3, 3) (H)

Writing for the stage. Exercises and practice in the structure of action, character development, dialogue, critical analysis. Alternate years; offered 1981-82.

341 — Stage Costuming (3) (H)

History and basic principles of costume design, use of historic period, silhouettes, stylization, color, and construction to create and enhance the theatrical illusion. Alternate years; offered Spring 1981.

361, 362 — History of the Theater (3, 3) (H)

Theaters, production methods, dramatic conventions, key figures from the Greeks to the present. Alternate years; offered 1980-81.

371 — Oriental Theater (3) (H)

Indian, Japanese, Chinese theaters and their styles. Offered Spring 1981

381 — History of Film to 1945 (3) (H)

Viewing and analysis of film before 1945

382 — History of Film from 1945 to the Present (3) (H)

Viewing and analysis of film from 1945 to the Present.

391, 392, 393, 394 — Theater Practicum (1-2 each) (H)

Credit for performance or production work on MWC major productions. Prerequisites: for technical work, Dramatic Arts 231, 232; for acting, Dramatic Arts 221, 222. Prerequisites may be taken concurrently or equivalent experience may be substituted. By permission of the Department.

421, 422 — Acting Styles and Scene Study (3, 3) (H)

Prerequisites: Dramatic Arts 221, 222. Problems in acting. Creating and sustaining a character. Period styles. Alternate years; offered 1981-82.

431, 432 — Directing (3, 3) (H)

Technique and practice of directing for the stage. Student-directed productions presented in Studio 13. Offered 1980-81.

433 — Stage Lighting (3) (H)

Prerequisites: Dramatic Arts 231, 232. Theories and techniques of lighting stage productions; lighting instruments and equipment. Alternate years; offered Fall 1981.

434 — Scene Design (3) (H)

Prerequistes: Dramatic Arts 231, 232. History, theory and design of stage scenery; use of architecture, art, ornament with the elements of design. Alternate years; offered Spring 1982.

441 — Dramatic Theory and Criticism (3) (H)

Analysis of dramatic criticism from Aristotle to the present.

443 — Children's Theater (3) (H)

Staging and production of plays for children. Alternate years; offered Fall 1980.

444 — Creative Dramatics (3) (H)

Improvisational and experimental projects in acting for children's theater.

451, 452 — Special Studies in Dramatic Arts (3, 3) (H)

Concentration on a single area of dramatic arts. Topics vary from year to year.

461 — Seminar in Dramatic Arts (3) (H)

Readings, presentations, and projects in contemporary theater.

491, 492, 493, 494 — Individual Study (1-3 each) (H)

Individual study under direction of a member of the Department. By permission of the Department.

499 — Internship (H)

Supervised work experience, developed in consultation with the Department. Credits variable.

Economics

Department of Economics, Business and Public Affairs; Mr. Rycroft, Career Adviser

Economics has been defined as what economists do. A more precise definition may not be possible. The discipline is as broad as it is exciting. Inflation, unemployment, the energy crisis, poverty, discrimination, growth and development, and the proper role of government in society are only a sample of the issues with which economists deal.

The major program seeks to familiarize the student with the tools economists use to analyze these problems. This should help the individual in his or her decision-making role as a citizen of the nation, as well as provide a solid background for advanced study or the taking of positions in business and government. Mary Washington's proximity to the nation's capital is a particularly valuable feature of the learning experience.

Requirements for the Major

In Major Subject: 24 credits in Economics courses beyond 201, 202, including 371 and 372.

In Other Subjects: 15 credits in approved related courses including Statistics 200.

101 — Elements of Economics (3) (S)

One semester survey of the basic elements of economic theory. Students receiving credit for Principles may not receive credit for Elements.

200 — Consumer Economics (3)

A survey of business and economics problems confronting consumers. Major areas covered will be: banking, real estate, insurance, budgeting, securities and estate planning. Majors may not receive credit for this course.

201 — Principles of Economics: Macroeconomics (3) (S)

Basic principles of national income determination.

202 — Principles of Economics: Microeconomics (3) (S)

Basic principles of production, exchange, distribution and consumption of goods and services.

Economics 201 and 202 are prerequisite for all 300- and 400-level Economics courses.

301 — The Economics of National Issues (3) (S)

In-depth analysis of contemporary economic problems in American society.

310 — Corporate Finance (3) (S)

Financial policies of corporations.

311 — Economics of American Industry (3)

Application of microeconomic analysis to the problems of business organization.

312 — Government and Business (3)

A survey of all aspects of government interactions with the business community covering such topics as anti-trust, regulatory agencies, tariffs, etc.

315 — Investment Analysis (3) (S)

Introduction to portfolio theory and the use of both technical (mathematical) and fundamental (economic) analysis in evaluating investment alternatives.

321 — Money and Banking (3) (S)

The nature and functions of money, banking organization and practices, and the role of the monetary sector in the determination of income and employment.

341 — Government Finance (3) (S)

An analysis of the appropriate role of government in the allocation of resources.

351 — Labor Market Analysis (3) (S)

Analysis of the operation of labor markets. Topics include: human capital theory, economics of education, discrimination, poverty, labor market policy and the economic effects of unions.

352 — Comparative Labor Movements (3) **b1(S)**

History and development of the organized labor movement in selected countries. Discussion of selected current issues regarding the relationship of the labor movement to the economy and worker.

361 — Quantitative Economics I (3) (S)

Introduction to some of the mathematical and statistical concepts necessary in advanced economics and econometrics.

362 — Quantitative Economics II (3) (S)

Special topics in quantitative economics.

371 — Microeconomics (3) (S)

A systematic study of the role of the price system in organizing economic activity and an evaluation of its effectiveness.

372 — Macroeconomics (3) (S)

Analysis of the determination of national income, employment and the price level. Discussion of consumption, investment, inflation and fiscal and monetary policy.

381 — Urban Economics (3) (S)

An economic analysis of contemporary urban problems including structure and growth, housing, transportation, fiscal issues, urban labor markets, and central city and ghetto development.

391 — Comparative Economic Systems (3) (S)

A comparative analysis of economic systems. Emphasis will be given to theoretical models of economy structure and performance, as well as in-depth analysis of selected countries.

392 — Economic Development (3) (S)

An introduction to the economic characteristics and problems of less-developed countries and to theories and policies applicable to the developing country.

401 — International Economics (3) (S)

An introduction to international trade; the balance of payments, and related issues of foreign economic policy.

410 — Environmental Economics (3)

The application of economic methods to the analysis of environmental issues. Topics will include natural resource economics and public policy.

421 — Economics of Health (3)

A survey of market behavior, institutions, and public policy in the provision of health services.

441 — History of Economic Thought (3) (S)

A survey of economic analysis from Grecian antiquity to the 20th century, concentrating on the 18th and 19th centuries.

442 — American Economic Development (3) (S)

The study of factors contributing to the economic development of the United States, including the historical growth of economic institutions such as agriculture, banking, labor unions, and manufacturing.

471 — Economics Seminar (3) (S)

Special topics of interest to staff and students will be discussed in seminar.

491 — Individual Study in Economics (3) (S)

Directed individual research on an approved problem in economics.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Education

Department of Education; Mr. Slayton, Career Adviser

The role of the Department of Education is to help students develop the competencies necessary for successful teaching in elementary or secondary schools. Consequently, the Department functions as a service department offering, as electives, courses designed to prepare liberal arts students to meet requirements for certification as a teacher.

The teaching education programs at the College are approved by the Virginia State Department of Education and the National Association of State Directors of Teacher Education and Certification. The Mary Washington College student completing an approved program is eligible for certification in any of the more than 30 states signatory to the Teacher Certification Reciprocation Agreement.

Course sequences offered by the Department enable students to prepare to teach in nursery, kindergarten, and primary school (grades N, K, 1, 2, 3); in intermediate school (grades 4-7); in art (grades K-12), music (grades K-12); and in each of the following secondary school endorsement areas (grades 7-12): biology, chemistry, dramatics, earth science, economics, English, French, general science, geography, German, history, journalism, social sciences, mathematics, Latin, physics, political science, sociology, and Spanish.

In addition to full preparation for teaching, a Mary Washington College student may complete a foundation program which, with additional study at the graduate level, can provide entry into such professional specializations as special education, educational psychology, school administration, instructional supervision, and guidance and counseling.

ELEMENTARY CERTIFICATION PROGRAMS: NURSERY SCHOOL, KINDERGARTEN TO GRADE THREE AND GRADES FOUR THROUGH SEVEN

202 — Teaching the Very Young Child (3)

A practical orientation to the behavior and needs of preschool children in educational settings. Includes children, infancy through age four. Field experience required.

205 — Children's Literature (K-3) (4-7) (3)

A survey of children's literature with emphasis on fostering creativity and facilitating the language arts.

312 — Teaching in the Elementary School (4-7) (3)

Objectives, practices and materials of the intermediate school. Emphasizes teaching subject disciplines, classroom management and evaluating pupil progress. Field experience required.

332 — Growth and Development of the Young Child (K-3) (3)

Physical, social, emotional and intellectual development, birth through age eight. The effect of social forces on the behavior of the child. Field experience required.

349 — Physical Education for the Elementary Teacher (K-3) (4-7) (3)

Movement skills for children; includes movement exploration, creative rhythms, folk dance, games, and self-teaching for physical fitness.

359 — Music for the Elementary Teacher (K-3) (4-7) (3)

Objectives and processes of teaching music in the elementary grades.

369 — Art for the Elementary Teacher (K-3) (4-7) (3)

Objectives and processes of teaching art in the elementary school.

379 — Developmental Reading (K-3) (4-7) (3)

An overview of the reading process, including theoretical bases and instructional practices. Field experience required.

380 — Diagnostic Reading (K-3) (4-7) (4)

A survey of reading problems and informal and formal diagnostic reading instruments and procedures. A formal practicum is required.

402 — Teaching in the Kindergarten-Primary Grades (K-3) (3)

Principles, practices and materials of kindergarten-primary school programs. Emphasizes teaching from a developmental point-of-view of the child. Field experience required.

414 — Teaching Mathematics and Science in the Elementary School (K-3) (4-7) (3)

Objectives, practices and materials of elementary mathematics and science programs; emphasis on conceptual learning.

SECONDARY ENDORSEMENT PROGRAMS: TEACHING THE DISCIPLINES, GRADES EIGHT THROUGH TWELVE (ART, MUSIC: KINDERGARTEN THROUGH GRADE TWELVE)

310 — Reading in the Content Areas (3)

Practices, principles and materials for teaching reading concomitantly with the subject discipline. Field experience required.

317 — Teaching Music in the Elementary School (3)

The objectives and processes of teaching music; emphasis on music reading, conceptual learning, curriculum and evaluation. (For music majors). Field experience required.

318 — Teaching Music in the Secondary School (3)

Music management in the secondary school, history and philosophy of music education, curriculum and current trends. (For music majors). Field experience required.

319 — Teaching Foreign Language (3)

The objectives, practices and materials of teaching modern and classical languages in the secondary school. Field experience required.

320 — Teaching Art (3)

The objectives, practices and materials of teaching art in elementary and secondary schools. (For art majors). Field experience required.

321 — Teaching Mathematics (3)

The objectives, practices and materials of teaching mathematics in the secondary school. Field experience required.

322 — Teaching Social Sciences (3)

The objectives, practices and materials of teaching a social science discipline in the secondary school. Field experience required.

323 — Teaching Sciences (3)

The objectives, practices and materials of teaching a science discipline in the secondary school. Field experience required.

324 — Teaching English/Drama (3)

The objectives, practices and materials of teaching English and/or Drama in the Secondary School. Field experience required.

420 — Foundations of Teaching in the Secondary School (3)

The affective curriculum viewed from the social-psychological perspectives: practical techniques for improving the teaching/learning environment are explored.

ALL CERTIFICATION PROGRAMS

440 — Supervised Teaching (9)

Prerequisite: Approval of adviser and Department of Education. Orientation to teaching under direction of cooperating teachers in public elementary and secondary schools.

441, 442, 443 — Supervision Seminar for Cooperating Teachers (2 each)

Prerequisite: Selection to serve as a cooperating teacher. A sequential series of seminars in educational supervision available only to classroom teachers serving as cooperating teachers to Mary Washington College student teachers.

471 — Special Topics in Education (1-6)

Specific subject content to be determined with participating school divisions.

English

Department of English, Linguistics, and Speech; Mr. Mitchell, Career Adviser

The Department's programs permit majoring in English with a concentration in either literature or writing. Requirements insure familiarity with both the language itself and with literary history, while choices within each major program allow a good deal of individual focusing. Introductory courses, numbered below 300, provide experience in exact reading and shapely writing. The main body of courses, numbered from 300 to 399, offers chances to do more sophisticated writing, and to explore bodies of literature defined by period, genre, or theme. Seminars,

individual study, and internships, numbered from 400 to 499, offer intense, highly individualized study to complement the lectures and discussions through which our other courses operate. All classes are small, and a number of other activities, such as the Poetry Reading Series, bring professors and students together informally. While the Department has no ideology, we are devoted to witty and elegant expression, rigorous thought, mastery of detail, and intellectual honesty.

Many students combine studying literature or writing with majors in other disciplines. About 30% of our majors also certify for elementary or secondary teaching. Others go on to graduate or professional school. Still others take jobs in everything from the genuinely exotic, through the infinite shadings of journalism and public relations, to government and business. The specific skill nourished by majoring in English which employers value most is exact writing; but like all humane disciplines, English teaches complexity of thought and subtlety of feeling. What binds all English majors is joy in the language and love for its literature.

Requirements for the Major

Literature Concentration

In Major Subject: 233; 27 credits in upper level English courses including 3 courses concentrating on literature written before 1800, and 2 seminars.

In Other Subjects: Linguistics 101 and 305.

Writing Concentration

In Major Subject: One course from English 200, 201, 231, 232, 233; 27 additional credits in upper-level writing and literature courses to fit the following patterns:
(1) at least 6 credits of 300-level writing courses;
(2) at least 12 credits of upper-level literature courses;
(3) at least 6 credits of 400-level courses;
(4) at least 6 credits in courses concentrating on literature written before 1800.

In Other Subjects: Linguistics 101 and 305.

101 — Writing Workshop (3)

Group and tutorial instruction in the fundamental techniques of expository and argumentative writing: organization, development, coherence, research methods, mechanics.

200 — Newsgathering (3)

An introduction to the techniques of newsgathering, including practice in interviewing, beat reporting, and covering various kinds of news events.

201 — Advanced Composition (3)

Development of flexible and effective expository prose through analysis of models and practice with styles and techniques.

211 — Survey of English Literature (3) (L)

Literary movements and types from Beowulf through the 18th century.

212 — Survey of English Literature (3) (L)

Literary movements and types from the Romantic movement to the present.

221 — Survey of American Literature (3) (L)

American backgrounds and literary movements and types from the colonial writers through Whitman.

222 — Survey of American Literature (3) (L)

American backgrounds and literary movements and types from Dickinson to the present.

231 — Short Fiction (3) (L)

Study of selected short stories and short novels.

232 — The Novel (3) (L)

Study of the form, content, and development of selected novels.

233 — Poetry (3) (L)

Close analysis of poetic form and content.

234 — Shakespeare (3) (L)

Shakespeare's achievement in selected plays and poems.

235 — Tragedy (3) (L)

Tragedy as form and idea reflected in selected literary and dramatic works of world literature.

236 — Comedy (3) (L)

Comic conventions in selected works of world literature.

241 — Fantasy in Literature (3) (L)

Themes, techniques, and structures in selections from the literature of fantasy.

242 — Myth in Literature (3) (L)

Study of myth — cultural, natural, Christian, and classical — in selected literary works.

243 — Women in Literature (3) (L)

Study of literature by women and about women.

244 — Narrative Form in Fiction and Film (3) (L)

Study of parallel narratives in novels and fiction films, to see how the medium of telling affects the story told.

251 — Issues in Literature (3) (L)

Significant literary figures, movements, and topics. Consult schedule of courses for specific topic.

300 — Principles of Newspaper Writing (3)

Prerequisite: English 200 or consent of the instructor. Practice in writing, reporting, editing, and laying out various kinds of news stories.

301 — Principles of Magazine Writing (3)

Prerequisite: English 200 or consent of the instructor. Practice in writing and laying out various kinds of magazine articles, with emphasis on feature writing.

302, 303 — Creative Writing I and II (3, 3)

Prerequisite for 302: English 231 or 232 or 233 or consent of the instructor. A workshop devoted to writing fiction and poetry. Primary emphasis on developing student abilities to write creatively, with periodic attention to examples from established writers. Only in sequence.

304 — Studies in Prose Style (3)

Prerequisite: English 201 or consent of the instructor. Introduction to the varieties of English prose. Analysis and imitation of historical models, from Bacon to Updike. Examination and practice of critical prose

techniques, from the modes of academic criticism to those of popular reviewing. Linguistic analysis of style.

309 — Chaucer and His Age (3) (L)

Primarily Chaucer's *Canterbury Tales*, with some attention given to other lyric, heroic, or romance narratives of medieval England.

315 — English Drama Through the Restoration (3) (L)

Origins and development of English drama through the Restoration. Includes miracle and morality plays, and Elizabethan, Jacobean and Restoration drama.

316 — Renaissance and Baroque Literature (3) (L)

English nondramatic literature of the 16th and 17th centuries. Emphasizes Sidney, Spenser, Donne, Jonson, and Milton.

319 — Shakespeare: The Early Plays (3) (L)

Shakespeare's early development, focusing mainly on the comedies and history plays.

320 — Shakespeare: The Later Plays (3) (L)

Shakespeare's later development, focusing on the tragedies, problem plays, and final romances.

325 — The Age of Neoclassicism (3) (L)

English literature during the Restoration and the early 18th century, with emphasis on the revival of classical aesthetics and forms.

326 — The Age of Sense and Sensibility (3) (L)

English literature during the second half of the 18th century, with emphasis on the transition from Neoclassicism to Romanticism.

333 — The British Novel to 1945 (3) (L)

Growth of the English novel from its origins to the Second World War.

334 — The American Novel to 1945 (3) (L)

Growth of the American novel from its origins to the Second World War.

335 — English Romanticism: Wordsworth to Keats (3) (L)

English literature of the early 19th century, concentrating on five great Romantic poets: Wordsworth, Coleridge, Byron, Shelley, and Keats.

336 — Victorian Literature (3) (L)

English literature from 1830 to 1900, emphasizing the poetry of Tennyson and Browning and the novels of Dickens.

355 — American Romanticism (3) (L)

Literary romanticism in 19th century American prose and poetry. Includes Hawthorne, Melville, Thoreau, Whitman, and Dickinson.

356 — American Realism (3) (L)

Literary realism in American prose and poetry of the 19th and early 20th centuries. Include James, Dreiser, Twain, and others.

365 — Modern Literature, 1890-1930 (3) (L)

Origins and development of major concerns and themes in the early modern period. Includes chiefly British and American writers.

366 — Modern Literature, 1920-1945 (3) (L)

Explorations of modern themes and techniques in the works of major modern writers, chiefly British and American.

367 — Modern Drama (3) (L)

Modern drama beginning in the late 19th century. Includes Ibsen, Shaw, O'Neill, Beckett, and Pinter.

369 — Contemporary European Fiction (3) (L)

Major European writers of the 20th century and their reflection of literary, political, social, philosophical, and psychological developments.

370 — Contemporary Literature (3) (L)

Contemporary literature, primarily British and American, in all genres.

375, 376 — Special Studies (3, 3) (L)

Studies in significant literary figures, movements, and topics. Consult schedule of courses for specific topic.

411 — Studies in Drama (3) (L)

Major problems, themes, movements, or figures in drama. Consult schedule of courses for specific topic.

413 — Studies in Poetry (3) (L)

Major problems, themes, movements, or figures in poetry. Consult schedule of courses for specific topic.

415 — Studies in the Novel (3) (L)

Major problems, themes, movements, or figures in the novel. Consult schedule of courses for specific topic.

445 — Studies in English Literature to 1600 (3) (L)

Significant figures, movements, themes, or problems in English literature to 1600. Consult schedule of courses for specific topic.

447 — Studies in English Literature, 1600-1800 (3) (L)

Significant figures, movements, themes, or problems in English literature, 1600-1800. Consult schedule of courses for specific topic.

449 — Studies in English Literature, 1800-Present (3) (L)

Significant figures, movements, themes, or problems in English literature, 1800 to the present. Consult schedule of courses for specific topic.

455 — Studies in American Literature to 1900 (3) (L)

Significant figures, movements, themes, or problems in American literature through the 19th century. Consult schedule of courses for specific topic.

457 — Studies in American Literature, 1900-Present (3) (L)

Significant figures, movements, themes, or problems in American literature of the 20th century. Consult schedule of courses for specific topic.

465 — Senior Seminar (3) (L)

Literature as a discipline. Topics include literary history, textual criticism, contemporary prose styles, and use of linguistics and computer techniques.

491, 492, 493, 494 — Individual Study (3 each) (L)

Individual study under the direction of a member of the staff.

495 — Individual Study in Creative Writing (3) (L)

Prerequisites: English 302, 303. Individual study under the direction of a member of the staff.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Environmental Earth Sciences

Department of Biological Sciences;
Mr. Bass, Career Adviser

The Environmental Earth Sciences major is designed to promote the study of the linkage between mankind and the environment. The scope of this major necessitates specialization in one of two areas; students may elect to emphasize the natural science or the social science aspects. The natural science concentration will provide a background in biology, chemistry and geology. The analytical skills available in this program of study, coupled with an appreciation for socio-economic considerations, will prepare the student to evaluate environmental problems and work on solutions taking into consideration the limits of societal resources. The social sciences concentration focuses on the economic, political and sociological aspects of modern man. Study of the impact of mankind on the environment and the repercussions therefrom, coupled with an appreciation of the biotic and physical parameters of the environment, will prepare the student to evaluate government, industry and environmentalist positions on environmental issues.

Environmental legislation and the Environmental Protection Agency regulations have produced an increased demand by both industry and all levels of government for personnel who are trained in the environmental sciences. These programs of study will provide a strong background for advanced study or allow placement directly in a variety of career areas, depending on the individual course of study.

Requirements for the Major

N.B. Students expecting to major in Environmental Earth Sciences should take the following courses as basic requirements or electives because they are prerequisite to courses in the major program: Biology 121, 122, Chemistry 111, 112 or 105, 106; Economics 201, 202.

Core Courses: Environmental Earth Sciences 101, 460; Biology 311 or 322; Chemistry 205, 252 or 211; Economics 410; Geography 313; Geology 101 or 102; Sociology 311 or Geography 275.

Required Groupings: 14-16 credits from courses in one of the following groupings to form an approved, cohesive program. (No more than three courses may be taken in any one discipline):

A. Natural Environmental Studies: Biology 311, 312, 322, 342, 352S, 361, 363, 371; Chemistry 205, 211, 212, 252, 317, 318, 319, 320, 333; Geography 312, 414, 415; Geology 101, 102, 301, 402, 411; Environmental Earth Sciences 481, 491, 499.

B. Social Environmental Sciences: Anthropology 102; Economics 301, 308; Geography 275, 345, 414, 415; Political Science 311, 312, 332; Public Administration 402; Sociology 311, 313; Environmental Earth Sciences 481, 491, 492.

Recommended: Computer Science 101; Geography 213; Mathematics 121; Physics 101, 102, or 201, 202; Statistics 200; Courses in A or B above.

101 — Introduction to Environmental Earth Sciences (1)

Mankind and the environment as viewed from the social and natural sciences.

460 — Environmental Earth Science Seminar (2) (N/M)

Multidisciplinary evaluation of environmental problems. Senior level seminar for EES majors; others by permission of the instructor.

481 — Readings in the Environmental Earth Sciences (2)

Readings in EES literature selected by the student, who is guided by a staff member. Open to junior and senior majors by permission of the Department.

491 — Special Problems in the Environmental Earth Sciences (3) or (4 for honors)

Prerequisite: 481. Individual investigation supervised by a staff member. Open to junior and senior majors with permission of the Department.

499 — Internship

Prerequisite: junior or senior major in good academic standing with appropriate background. Supervised off-campus experience, developed in consultation with the Department. Credits variable.

French

Department of Modern Foreign Languages;
Mrs. Blessing, Career Adviser

See *Modern Foreign Languages* for statement of departmental goals and program.

Requirements for the Major

In Major Subject: 24 credits in French courses beyond 201-202, including 18 in literature and 391, 392.

In Other Subjects: 12 credits in approved courses in literature, in another language, or in the history, geography, or arts of the country of the language studied.

101-102 — Beginning French (6)

Grammar, composition, conversation, reading, laboratory use.

201-202 — Intermediate French (6)

Grammar review, reading, oral work, laboratory use.

291, 292 — Studies in Language I (3, 3)

Grammar, composition, conversation.

300 — French Phonetics (3)

Recommended for French majors and prospective teachers of French. Fall 1982

321, 322 — Introduction to French Literature (3, 3) (L)

A thematic approach to French literature through selected works of the 17th-20th centuries.

323 — French Studies: Special Topics (3) (L)

Consult schedule of courses for specific topic. Fall, 1982.

341 — Literature of the Middle Ages and Renaissance (3) (L)

French literature from its beginning through the 16th century, including *Tristan et Iseult,* Ronsard, Rabelais, Montaigne. Spring 1981.

351 — Drama of the Seventeenth Century (3) (L)

Corneille, Molière and Racine. Fall, 1983.

352 — Non-dramatic Literature of the Seventeenth Century (3) (L)

Pascal, Mme. de Sevigné, Mme. de La Fayette, LaFontaine, Fénelon. Spring 1982.

361 — Literature of the Eighteenth Century (3) (L)

Fiction, drama, and philosophy. Spring 1983.

371 — Novel of the Nineteenth Century (3) (L)

Hugo, Stendhal, Balzac, Flaubert and Zola. Spring 1982.

372 — Nineteenth Century Poetry and Theater (3) (L)

Lamartine, Hugo, de Musset, and Dumas. Fall 1982.

381 — The Novel of the Twentieth Century (3) (L)

Proust, Gide, Mauriac and Malraux. Spring 1981.

382 — Twentieth Century Theater (3) (L)

Claudel, Sartre, Anouilh and Ionesco. Spring 1983.

391, 392 — Studies in Language II (3, 3)

Advanced grammar, composition, conversation. Required of majors.

481 — Senior Seminar (3) (L)

Selected topics. Required of senior majors.

491, 492 — Individual Study (3, 3) (L)

Intensive study of one or more authors selected by student in consultation with adviser.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Geography

Department of Anthropology, Geography and Sociology; Mr. Gouger, Career Adviser

Geography supports a liberal education program by describing, analyzing, and explaining the diverse forces which work to produce the varied world in which man lives.

Of special interest is a career-focus grouping of courses in cartography which meets or exceeds the requirements of the state and federal civil service and provides training acceptable to most private mapping firms. Other departmental programs are designed to provide the basis for graduate studies. Teacher certification in geography is offered in cooperation with the Department of Education.

Requirements for the Major

In Major Subject: 36 credits in Geography courses, which shall normally include at least one course from the regional, systematic, and professional areas of the course offerings. Up to 6 credits in Geology may be substituted for Geography courses.

212 — World Cultural Geography (3) (S)

Concepts, themes, and methods of cultural geography. Analysis of cultural patterns on regional, continental, and global scales.

213 — Physical Geography (3)

An introduction to the varied processes which act on and produce the spatial patterns of physical features on and near the surface of the earth.

220 — Geography of Anglo-America (3) (S)

Regional geography of the United States and Canada, stressing differences in land, landscape, life, and livelihood.

241 — Introductory Economic Geography (3) (S)

Distribution, description, and analysis of traditional economic systems, their spatial and environmental frameworks, and their roles in the modern world.

275 — Human Environment: Perception and Utilization (3) (S)

Human ecology, environmental quality, pollution, resource utilization, conservation, and man's role in changing the face of the earth.

312 — Geomorphology (3)

Origin and development of landforms and their relation to underlying structure, process and time.

313 — Weather and Climate (3)

Analysis of weather processes; distribution of climatic regions; impact of climate upon man and nature.

325 — Geography of Europe (3) (S)

Climate, surface features, natural resources, population, agriculture, industry, and trade of the European continent.

326 — Geography of the Soviet Union (3) (S)

Landforms, climate, boundaries, trade, resources, people, and cultural groupings of the Soviet Union.

331 — Geography of East Asia (3) (S)

Environment, landscape, and livelihood of Central Asia, the Far East, and Southeast Asia.

332 — Geography of the Middle East and India (3) (S)

Environment, landscape, and livelihood of the Middle East and the Indian subcontinent.

333 — Geography of Africa (3) (S)

Landforms, climate, peoples, boundaries, trade, resources, and cultural groupings of the African continent.

334 — Geography of South America (3) (S)

Survey of population, natural resources, geographic regions and potentialities of South America.

335 — Geography of Middle America and the Caribbean (3) (S)

Survey of population, natural resources, geographic regions, and potentialities of Middle America and the Caribbean.

341 — Advanced Economic Geography (3) (S)

Theoretical approaches to location of economic activity, spatial models of economic systems; regional economic organization.

345 — Introductory Urban Geography (3) (S)

Origin and diffusion of pre-industrial cities; their environmental settings, urban ecology, functions, and morphology in both Old and New Worlds.

346 — Introduction to Planning (3) (S)

Study of the basic concepts, laws, and methods used in city and regional planning.

361 — Geographical Influences on History (3) (S)

Influences of man's physical environment on history, with emphasis on American history.

362 — Political Geography (3) (S)

Study of geographic factors in world power and international affairs.

414 — Air Photo Interpretation (3)

Basic principles of photogrammetry, geographic interpretation of aerial photographs and introduction to remote sensing of the environment.

415 — Cartography (4)

Introduction to basic cartographic methods; analyses of cartographic problems with exercises in techniques of graphic presentation.

416 — Advanced Cartography (4)

Prerequisite: Geography 415 or permission of instructor. Advanced cartographic techniques, including cartograms, negative scribing, block diagrams and physiographic mapping.

417 — Field Methods (3)

Methods of obtaining information, mapping and preparation of reports and illustrative materials based on field research experience. Offered summer only.

418 — Field Geography (3)

Intensive study of a problem in physical, economic or cultural geography, conducted in an area of geographic interest. Offered summer only.

422 — Historical Geography of North America (3) (S)

Geography of selected regions of North America during designated periods of history.

445 — Advanced Urban Geography (3) (S)

Post-industrial cities: an intensive view of their urban structure, internal and external spatial relationships, and city-systems.

470 — History of Geographic Thought (3) (S)

Seminar on development of geographic knowledge, theory, philosophy, and methods as illustrated by the writings of representative geographers.

475 — Readings in Geography (3) (S)

Directed readings on a selected topic in geography under the guidance of a faculty member.

491 — Special Problems in Geography (3-6) (S)

Individual study of some geographic problem, selected in consultation with the Department.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Geology

Department of Chemistry and Geology
Mr. Dagenhart, Career Adviser

Introductory and second-year geology courses are designed to introduce students to the basic principles and broad applications of the science. The upper level courses provide a more in-depth analysis of geological processes for students who are considering professional employment in areas such as mineral exploration and geologic mapping. With an appropriate selection of courses in mathematics and the basic sciences, graduate study may be pursued. The major program also provides the background for careers in the teaching of earth sciences.

In consultation with the career adviser the geology major may also select courses in related science fields to develop a career-focused grouping e.g., geology/geography for positions in urban and land-use planning or cartography, geology/environmental earth sciences for environmental or water resources careers, and geology/chemistry/physics for geochemical or geophysical research or evaluation of energy and mineral resources.

The Department of Chemistry and Geology has well equipped laboratories to support and reinforce classroom instruction. Facilities are available for x-ray diffractometry, x-ray fluorescence, atomic absorption, emission spectroscopy, and thin section preparation. Field equipment includes a proton magnetometer, seismometer, surveying equipment, and altimeters. The department possesses an extensive collection of rocks, minerals and fossils as well as several petrographic and optical microscopes. Computer facilities are also available.

Requirements for the Major

In Major Subject: 24 credits in Geology courses, including 101, 102, 301, 302, and three other upper-level courses. Geography 312 and 313 may be substituted for two of these courses.

In Other Subjects: 12 credits in approved related courses.

101 — Introductory Geology (4) (N/M)

Recommended preparation: Mathematics 111 or equivalent. Introduction to the earth and its rocks, minerals, fossils, mountains, earthquakes, erosion, and glaciers. Laboratory.

102 — Oceanography (3) (N/M)

Recommended preparation: Mathematics 111 or equivalent. The oceans, ocean floor, sediments, continental drift, tides, currents, waves, seawater, and marine resources.

201 — Paleontology (3) (N/M)

Prerequisites: Geology 101 and Biology 121. Plant and animal fossils and the ancient environment indicated by their presence. Laboratory.

301 — Mineralogy (4) (N/M)

Prerequisites: Geology 101 and Chemistry 112 or 106. Study of minerals including an introduction to crystallography and methods of identification. Laboratory.

302 — Petrology (4) (N/M)

Prerequisite: Geology 301. Origin, occurrence and structure of rocks with an emphasis on identification and classification. Laboratory.

311 — Sedimentation and Stratigraphy (3) (N/M)

Prerequisites: Geology 101 (Geology 301 is recommended as a prerequisite or corequisite). Survey of sedimentary particles, transport processes, depositioned environments, and resulting strata. Laboratory.

402 — Geochemistry (3) (N/M)

Prerequisite: Geology 301. Study of distribution, migration, and abundance of the elements within the earth.

411 — Soil Science (3) (N/M)

Prerequisite or corequisite: Geology 301. Properties, processes, composition, classification and evolution of soils. Laboratory.

412 — Structural Geology (4) (N/M)

Prerequisite or corequisite: Geology 302. Analysis and interpretation of structural features of the earth's crust such as folds and faults. Laboratory.

421 — Advanced Topics in Geology (2-4) (N/M)

Prerequisite: Permission of instructor. Specialized topics not offered on a regular basis e.g., Geophysics, Hydrology and Advanced Mineralogy. Laboratory included with certain topics.

491 — Individual Study (1-4) (N/M)

Prerequisite: Permission of instructor. Investigation of a topic which may include laboratory and literature research. Course of study determined by instructor and student.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

German

Department of Modern Foreign Languages; Mr. Merrill, Career Adviser

See *Modern Foreign Languages* for statement of departmental goals and program.

Requirements for the Major

In Major Subject: 24 credits in German courses beyond 201-202, including 18 in literature and 391, 392.

In Other Subjects: 12 credits in approved courses in literature, in another language, or in the history, geography or arts of the country of the language studied.

101-102 — Beginning German (6)

Grammar, composition, conversation, reading, laboratory use.

201-202 — Intermediate German (6)

Grammar review, reading, conversation.

291, 292 — Studies in Language I (3, 3)

Grammar, composition, conversation.

315, 316 — German Culture and Institutions (3, 3) (S)

History, art, music, customs, traditions of German-speaking peoples.

321, 322 — Introduction to German Literature (3, 3) (L)

A study of representative authors, genres, and literary movements in the nineteenth and twentieth centuries.

371 — German Classicism (3) (L)

The German Hochklassik as seen in Goethe and Schiller.

372 — German Romanticism (3) (L)

Includes Eichendorff, Kleist, Novalis and Tieck.

373, 374 — Nineteenth Century Literature (3, 3) (L)

From Biedermeier through Junges Duetschland and Realism.

381, 382 — Twentieth Century Literature (3, 3) (L)

Includes Hofmannsthal Mann, Rilke, Musil, Kafka, Brecht, Dürrenmatt, Frisch, Böll, Grass, Wolf.

391, 392 — Studies in Language II (3, 3)

Advanced grammar, composition, conversation.

481, 482 — Seminar in German Literature (3, 3) (L)

Selected topics which vary from year to year.

491, 492 — Individual Study (3, 3) (L)

Intensive study of one or more authors selected by the student in consultation with adviser.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Greek

Department of Classics, Philosophy and Religion

See *Classics* for general statement of goals and program.

131-132 — Elementary Greek (6)

Introduction to the language of ancient Greece. Grammar and composition are stressed, leading to translation of literature.

133, 134 — Intermediate Greek (3, 3)

Prerequisite: Greek 131-132 or equivalent. Review of grammar. Readings from Plato plus selections from other authors.

Health

Department of Health and Physical Education See *Physical Education.*

Historic Preservation

Department of History and American Studies; Mr. Spiess, Career Adviser

The major in historic preservation is interdisciplinary in structure, designed to acquaint the student with a broad range of preservation activities, including the identification, recovery, interpretation, conservation and restoration of the materials of history. The main purposes of the program are, first, to provide an overview of the preservation field; and, second, to establish a solid background in the academic disciplines upon which preservation activities are based.

The historic preservation program is significantly enhanced by the location of the College in Fredericksburg, amidst an area exceptionally rich in history from the Colonial, Revolutionary and Civil War periods. The student is thus able to utilize many readily-available assets in conducting field work, engaging in individual study, or developing internship opportunities. Upon completion of the major, the student will have been introduced to a variety of preservation activities — including museum, archival, architectural, and archaeological work — and will be prepared for entry-level employment or for further study at the graduate level in those areas.

Requirements for the Major

N.B. Art History 114, 115 and History 101, 102 are prerequisite for Historic Preservation 201, 202.

In Major Subject: 18 credits in Historic Preservation courses, including 201, 202, 301, 303, 305, 307.

In Other Subjects: 18 credits in approved related courses.

201, 202 — Principles of Historic Preservation (3, 3)

Prerequisites: History 101 and 102, Art History 114, 115. Survey of the preservation field, with attention to historic, social, economic, political, legal and environmental issues. May be taken only in sequence.

301 — Museum Techniques (3)

Prerequisite: Art History 114, 115, or permission of instructor. Study of the purposes and functions of museums and investigation of basic techniques of museum work.

303 — Archival Techniques (3)

Prerequisite: permission of instructor. Examination of various elements of archival work, including validation, preservation, and cataloging of collections.

305 — Architectural Techniques (3)

Prerequisite: Art History 114, 115, or permission of instructor. Analysis of techniques of preservation, restoration and planning.

307 — Archaeological Techniques (3)

Prerequisite: permission of instructor. Study of methods of archaeological survey, excavation, analysis, recording and interpretation.

471 — Special Studies in Historic Preservation (3)

Prerequisite: Historic Preservation 201, 202. Seminars on selected topics of importance within the preservation field.

491 — Individual Study (3)

Prerequisite: Historic Preservation 201, 202 and permission of instructor. Individual investigation of a significant subject in historic preservation, directed by faculty member.

499 — Internship

Prerequisites: Historic Preservation 201, 202 and appropriate additional course work in the major. Field experience with a preservation-related agency outside the College, supervised by a faculty member. Credits variable.

History

Department of History and American Studies, Mr. Warner, Career Adviser

The history curriculum, which is widely diversified, has several distinctive features, including a series of introductory courses which divides Western Civilization and American history into component periods, thereby allowing students to select areas of particular interest. There is a special 200-level course which focuses each semester on a different topic of current interest. The 400-level Special Studies courses, which offer a variety of topics of historical significance, provide the opportunity for the exchange of ideas within a seminar format. An internship option enhances the program by granting credit for certain history-related, career-oriented work outside the classroom.

The history major prepares the student for a variety of careers. Because the discipline requires the ability to analyze and communicate ideas as well as to retain factual information, it is an ideal preparation for law school or for a career in government, politics, or teaching. When combined with appropriate courses in other disciplines, it also provides an excellent background for a career in library or archival work; for journalism or media research; or for a business career in such areas as personnel or public relations.

Requirements for the Major

In Major Subject: 30 credits in History courses beyond the 200-level of which at least nine must be at the 400-level including 471 and 495. At least nine credits must be taken outside the primary area of concentration.

101 — Early America: 17th and 18th Centuries (3) (S)

Discovery, exploration, settlement and expansion of the colonies; the era of the Revolution; the Confederation; establishment of the Constitution.

102 — Middle America: 19th Century (3) (S)

Development of the party system, rise of Jacksonian democracy; slavery and sectionalism; the Civil War and Reconstruction; the emergence of industrial America.

103 — Modern America: 20th Century (3) (S)

Development of the United States as a world power from 1900 to the present, with emphasis on social, economic, political and diplomatic developments.

111 — Western Civilization I: Ancient Period (3) (S)

From the origins in Mesopotamia through Classical Greece, the Hellenistic World and the Roman Republic to the decline of the Roman Empire.

112 — Western Civilization II: Medieval Period (3) (S)

From the fall of the Roman Empire to the Renaissance, with emphasis on the church, feudal institutions, medieval thought and the origins of modern national institutions.

113 — Western Civilization III: Early Modern Period (3) (S)

From the Renaissance and Reformation through the Age of Absolutism and the Enlightenment to the French Revolution and Napoleon.

114 — Western Civilization IV: Modern Period (3) (S)

From 1815 to the present, with emphasis on cultural, intellectual and political developments, the World Wars, fascism and communism.

200 — Topics in History (3) (S)

Various historical subjects are chosen according to timely interest. Specific topics are announced in semester class schedules.

301, 302 — Diplomatic History of the United States (3, 3) (S)

First semester, analysis of American foreign relations from colonial period to 1860; second semester, 1860 to present.

303 — The American South (3) (S)

Slavery and the plantation system, rise of sectionalism, Civil War and Reconstruction, the era of segregation and the civil rights movement.

304 — The Civil War (3) (S)

Development of Southern nationalism and the Confederacy; emphasis on social, economic and political, as well as military, aspects of the War.

305 — The Frontier in American History (3) (S)

Western movement across the continent from colonial beginnings to the present; impact of frontier experience on American attitudes and values.

306 — The Black in American History (3) (S)

Development of racism, the slavery experience, the segregation era, the civil rights movement and the rise of black militancy. Offered Fall 1981.

307, 308 — Social History of the United States (3, 3) (S)

Changing patterns of thought and social life in America, emphasizing the impact of Darwinism and industrialism.

309 — The American Indian (3) (S)

From pre-history to the present, with emphasis on differences among Indians and on interaction between Indians and whites.

311, 312 — History of Virginia (3, 3) (S)

First semester, English origins and colonial developments through the Revolutionary era; second semester, Jeffersonian period to the present.

331 — Ancient Greece (3) (S)

Geography, history and civilization of Greece from the earliest times through the death of Alexander the Great. Offered Fall 1981.

332 — Ancient Rome (3) (S)

Formation, development and demise of the Republic; Augustus and the Empire; and the impact of Christianity. Offered Spring 1982.

333 — The Renaissance and Reformation (3) (S)

Growth of Italian city-states, the new philosophy of man, Christian humanism and the spread of Protestantism.

351, 352 — History of England (3, 3) (S)

Survey of English history from beginning to present with emphasis on economic and political aspects and growth of British empire.

353, 354 — History of France (3, 3) (S)

First semester, Gaul and the Franks to French Revolution and Napoleon; second semester, Restoration Era to deGaulle.

356 — History of Germany (3) (S)

From the wars of unification to the present, with emphasis on the era of Bismarck, World War I, Weimar Republic, Third Reich and Cold War. Offered Fall 1981.

357, 358 — History of Russia (3, 3) (S)

First semester, Kiev, Moscovy and Imperial Russia to 1856; second semester, the last Romanovs, Revolution and Soviet Period.

359, 360 — History of Spain (3, 3) (S)

From Moorish invasions to the present, with emphasis on social and economic developments from the 16th century to the modern age. Offered 1981-82.

361, 362 — History of Latin America (3, 3) (S)

Colonial institutions, the independence movement, development of modern states, the Organization of American States and other international problems. Offered 1980-81.

364 — History of Japan (3) (S)

Social, political and intellectual development of Japan from the earliest times to the present; emphasis on the rise of Japan to world power.

365, 366 — History of China (3, 3) (S)

Social, political and intellectual development of China from the earliest times to the present; emphasis on the rise of modern nationalism, Maoist period.

371, 372 — European Diplomatic History (3, 3) (S)

First semester, development of modern state system through Napoleon; second semester, from Congress of Vienna through the World Wars to detente.

375 — Military History (3) (S)

The art of war and its impact on society from 18th century to present; military developments analyzed in terms of organization, strategy and technology.

380 — United States since 1945 (3) (S)

Emphasis on major issues of the postwar era, including the Cold War, McCarthyism, civil rights movement, Vietnam, black militancy and feminism.

381 — Europe since 1945 (3) (S)

From end of World War II to present, with emphasis on Cold War, Common Market, colonial independence movements and domestic developments. Offered Spring 1981.

382 — Far East since 1945 (3) (S)

Cultural, social, economic and political developments in modern China, Japan and Korea, with emphasis on relations of those countries with United States and Soviet Union.

401, 402 — United States Cultural and Intellectual History (3, 3) (S)

Development of American culture and ideas through major historical figures and events; emphasis on law, science, religion and reform. Offered 1981-82.

411, 412 — European Cultural and Intellectual History (3, 3) (S)

Analysis of significant developments in philosophical, political, religious, social and scientific thought, and their impact upon European culture. Not offered 1980.

471 — Special Studies in History (3) (S)

Seminars on selected topics of particular historical importance. Junior or senior status required.

481 — Historiography (3) (S)

The study of historical interpretation with emphasis on the major developments which have shaped the discipline of history. Junior or senior status required.

491 — Individual Study (3) (S)

Individual investigation of a subject of historical significance, directed by a member of the Department. By permission of the instructor.

495 — Historical Research (3) (S)

Introduction to methods of historical research and writing, involving in-depth investigation of a subject of the student's choice. Senior status required.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

International Affairs

Department of Economics, Business and Public Affairs; Mr. Kramer, Career Adviser

The interdisciplinary major in International Affairs is designed to provide the student with a broad knowledge of the contemporary international system as well as with specific expertise in a given geographic area and/or academic discipline. To this end, the major combines core courses that examine international affairs from a variety of disciplinary perspectives with related courses that permit students to pursue in depth their particular geographic and/or disciplinary interests.

Career opportunities for the major in International Affairs range from such traditional areas as work with government or private agencies engaged in research on foreign policy or intelligence issues to such new and rapidly expanding areas as employment with multinational corporations or international banking institutions.

Requirements for the Major

Core Courses: 36 credits in approved related courses including Economics 401 (prerequisite 201, 202); Geography 362; History 302; Political Science 321, 322, 356.

In Other Subjects: at least six credits in each of two languages at the intermediate level or six credits in one language at the advanced level.

Recommended: Political Science 101, 102.

Italian

Department of Modern Foreign Languages; Mr. Ascari, Career Adviser.

See *Modern Foreign Languages* for statement of departmental goals and program.

101-102 — Beginning Italian (6)

Grammar, composition, conversation, reading, laboratory use.

201-202 — Intermediate Italian (6)

Grammar review, reading, oral work, laboratory use.

315, 316 — Society and Civilization (3, 3)

Literary, social and cultural history of the Italian people. Offered in 1980-81.

371, 372 — Nineteenth Century Literature (3, 3) (L)

Includes Manzoni, Foscolo, Leopardi, D'Annunzio, De Sanctis, Verga, Pascoli, Carducci, Fogazzaro, Nievo. Offered in 1981-82.

381, 382 — Modern Italian Literature (3, 3) (L)

From Pirandello to Montale; prose and poetry of Gozzano, Suero, Ungaretti, Moravia, Carlo Levi, Cardarelli, Palazzeschi, Buzzah, Silone, and others.

395 — Italian Literature in Translation, Dante's Divine Comedy (3) (L)

Taught in English. Includes other early Italian poets.

396 — Italian Literature in Translation: Masterpieces of the Renaissance (3) (L)

Taught in English. Petrarch, Boccaccio, Cellini, Ariosto, Castiglione, Tasso, Machiavelli, etc.

491, 492 — Individual Study (3, 3) (L)

Intensive study of one or more authors selected by student in consultation with adviser.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Latin

Department of Classics, Philosophy and Religion; Miss Hatch, Career Adviser

See *Classics* for general statement of goals and program.

Requirements for the Major

In Major Subject: 19 credits in Latin courses beyond the intermediate level including 351.

In Other Subjects: 12 credits in approved related courses.

Recommended: Greek

111-112 — Elementary Latin (6)

Essentials of Latin grammar and composition; introduction to the translation of Latin literature.

113, 114 — Intermediate Latin (3, 3)

Prerequisite: Latin 111-112 or two units of secondary school instruction. Continued study of Latin grammar and composition; readings from Latin prose, first semester; introduction to Latin poetry, second semester.

211, 212 — Survey of Latin Literature (3, 3) (L)

Prerequisite: Latin 113, 114 or four units of secondary school Latin. Historical survey of the development of Latin literature from earliest inscriptions to the end of pagan Roman writing.

310 — Medieval Latin (3) (L)

311 — Roman Drama (3) (L)

312 — Roman Historical Writing (3) (L)

313 — Roman Satire (3) (L)

314 — Epic Poetry (3) (L)

351 — Advanced Latin Grammar (1) (L)

Required for all majors.

411 — The Life and Times of Julius Caesar (3) (L)

In-depth study of Roman life and letters from 100-40 B.C. with readings from many contemporary sources.

451, 452 — Special Studies in Latin Literature (3, 3) (L)

Reading and study of individual Latin authors, genres of literature or of an area of Roman civilization. By permission of the Department.

491, 492 — Individual Study (3, 3) (L)

Individual study under the direction of a member of the staff. By permission of the Department.

Library Science

The ability to make effective use of library resources is essential to a liberal arts education. The offering in Library Science is designed to enhance student awareness of libraries in general and the College library in particular.

101 — Library Resources and Their Use (1)

Introduction to college library resources with limited emphasis on techniques of research. Taught by members of the Reference staff.

Linguistics

Department of English, Linguistics, and Speech

In offering courses in linguistics the Department aims to give the student, regardless of special interest, an understanding of the fundamental structure of language and, in conjunction with other disciplines, an opportunity to explore the acquisition of language in cultures and societies.

101 — Introduction to General Linguistics (3) (S)

The nature, structure and function of language; its acquisition; its relationship to thought, and its use in a social context.

201 — Issues in Sociolinguistics and Anthropological Linguistics (3) (S)

Prerequisite: Linguistics 101. The significance of language for human social life; language as an instrument for the acquisition of personality, of social role and social status; verbal behavior and nonverbal communication.

301 — Major Figures in Linguistics (3) (S)

Prerequisite: Linguistics 101. A course in the history of linguistic thought with special emphasis on significant figures and key developments in twentieth century linguistics.

305 — The English Language (3) (S)

Prerequisite: Linguistics 101. Structural, transformational, and case grammars and their application to English.

491, 492, 493, 494 — Independent Study in Linguistics (3) (S)

Prerequisite: Linguistics 101. In-depth individual research in an area of linguistics under the guidance of a member of the staff. By permission of the Department.

Mathematics

Department of Mathematical Sciences and Physics; Mr. Conroy and Mr. Lindsey, Career Advisers

The courses in Mathematics vary from the theoretical to the applied so that a major in mathematics can be a foundation for careers in industry, government, teaching or for the pursuit of a higher degree in graduate school. The Department also encourages double majors giving students entrance to a wide variety of fields upon graduation.

Requirements for the Major

In Major Subject: 24 credits in Mathematics courses beyond 221, including 331, 332, 341, 342 and 478 or 479.

In Other Subjects: 12 credits in approved related courses.

101 — Introduction to Mathematics (3) (N/M)

A beginning level finite math course for liberal arts students. Course contents may vary.

111 — Precalculus (3) (N/M)

Emphasis is on elementary functions including rational, exponential, logarithmic and trigonometric functions.

121 — Calculus I (3) (N/M)

Calculus of algebraic functions with applications.

221 — Calculus II (3) (N/M)

Advance topics of calculus of algebraic functions and calculus of transcendental functions with applications.

231 — Calculus III (4) (N/M)

Solid analytics, multivariate calculus, vector analysis and infinite series.

300 — Linear Algebra (3) (N/M)

Matrix algebra, determinants, vector spaces and linear transformations.

312 — Differential Equations (3) (N/M)

Prerequisite: Calculus II; recommended: Calculus III. Ordinary differential equations including LaPlace transformations.

321 — Number Theory (3) (N/M)

Properties of the integers: divisibility, congruences, quadratic reciprocity and number-theoretic functions.

325 — Discrete Structures (3) (N/M)

Prerequisite: Math 221. Mathematical models, sets, binary relations and functions, counting and algebras.

331, 332 — Abstract Algebra (3, 3) (N/M)

Prerequisite: Math 300 or permission of instructor. Mappings, groups, rings, fields, vector spaces and linear transformation. Only in sequence.

341, 342 — Advanced Calculus (3, 3) (N/M)

Prerequisite: Math 231. A rigorous, real analysis approach to the topics of calculus. Only in sequence.

361 — Topics in Applied Mathematics (3) (N/M)

Prerequisites: Math 231, 300, 312 or permission of instructor. Selected topics in applied mathematics, such as partial differential equations, Fourier series and optimization methods. Course content may vary as interest of class and instructor demands.

412 — Complex Variables (3) (N/M)

Prerequisite: Math 341. Analytic functions, Cauchy-Riemann conditions, integration, power series, calculus of residues, conformal mappings and applications.

431, 432 — Higher Geometry (3, 3) (N/M)

Methods of higher geometry; geometries of projective group of transformation; applications of affine and metric geometries.

441 — General Topology (3) (N/M)

Prerequisite: Math 301. Point-set theory including connectedness, compactness, continuity and metric space.

451, 452 — Numerical Analysis (3, 3) (N/M)

Corequisite: Math 341. Numerical methods applied to solutions of equations; interpolation; differentiation; integration; and solution of differential equations. Only in sequence.

478, 479 — Senior Seminar (1, 1)

Student must research and present a senior level mathematics topic to the class and the mathematics faculty.

491, 492, 493, 494 — Selected Topics in Mathematics (3 each) (N/M)

Prerequisite: departmental permission. Individual study under the direction of a member of the staff. May lead to graduation with Honors in Mathematics.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Medical Technology

Department of Biological Sciences;
Mrs. Southworth, Career Adviser

See page 6 for description of this cooperative program.

Under the cooperative program in Medical Technology, the student completes three years (92 credit hours) of undergraduate course work at Mary Washington College, followed by 12 months of clinical training at Fairfax Hospital, Roanoke Memorial Hospitals, or the University of Virginia Hospital. The degree earned is a Bachelor of Science in Medical Technology and is awarded by Mary Washington College.

Admission to the final 12-month hospital training program is competitive. The student must meet the admission requirements of the hospital to which application is made and should apply during the third year at Mary Washington. Upon successful completion of clinical work, students are qualified to take the National Registry Examination given by the American Society of Clinical Pathologists.

If students enrolled in the medical technology program change their interest, they may continue with the regular degree program at Mary Washington.

Requirements for the Major

At Mary Washington College: Biology 121, 122, 382-383, 271, 391; Chemistry 111, 112, 211, 212 (or 205, 252 instead of 211, 212); Mathematics 111, 121, and Physics 201, 202 (or 101, 102).

At Cooperating Hospital: Clinical year.

Modern Foreign Languages

Department of Modern Foreign Languages

Through classes in French, Spanish, German, Italian and Russian, the Department offers students an opportunity to gain mastery of one or more foreign languages.

Students learn to read, understand, speak, and write the language of their choice. Language laboratory facilities for tapes and records are used extensively to supplement classroom instruction. Upper-level classes are conducted in the foreign language. Through classroom instruction, individual research, and work in department-sponsored language clubs, students come to know the culture of the people whose language they are using.

The Department has major programs in French, Spanish, and German, and provides Spanish and Franch majors an opportunity to reside in small campus residence halls in which the language is spoken exclusively and which sponsor various intercultural programs each year.

The Department cooperates with a variety of overseas study groups, advises students wishing to study abroad, and helps in planning their foreign study programs.

Graduates in modern foreign languages enter teaching or any number of fields in which knowledge of a second language is essential, including translation, research, human services or international business and industry.

See individual language listings: *French, German, Italian, Russian, Spanish*

LITERATURES IN TRANSLATION

The Department of Modern Foreign Languages offers in its 395-6 category foreign literatures in English translation, all counting toward the literature requirement for the degree. All courses are three credits.

ITAL 395 — Dante's *Divine Comedy.*

ITAL 396 — Renaissance Masterpieces (Petrarch, Boccaccio, etc.)

RUSS 395 — Russian writers of the 19th century. Fall 1980.

RUSS 396 — 20th century writers (Gorky, Solzhenitsyn, etc.). Spring 1981.

RUSS 397 — Dostoevsky and Tolstoy. Fall 1981.

SPAN 395 — *Don Quixote.* Spring 1982.

SPAN 396 — Spanish American masterpieces. Fall 1981.

Music

Department of Music; Mrs. Norwood, Career Adviser.

The Department of Music offers a major program in music as well as courses that can be chosen as electives by students whose primary interests are in other fields. The major program includes intensive study in the theory, literature, history and skill areas of music as well as instruction in instruments and voice. As in all liberal arts programs, the emphasis is on broad coverage rather than specialization.

The courses and major program of the Department provide a background for graduate school, careers in the performing arts, teaching, and the music industry, as well as personal enrichment through a better understanding of the art and science of music.

Regular recitals and concerts by faculty, visiting performers and campus organizations are sponsored; the College also presents artists in the formal Concert Series. Students appear in general recitals, senior recitals, and perform with the College-Community Orchestra, MWC Chorus, and various other vocal and instrumental ensembles.

The Music Department has a chapter of Mu Phi Epsilon, international professional music fraternity, and sponsors student chapters of the American Guild of Organists and the Music Educators National Conference.

The Department of Music is an institutional member of the National Association of Schools of Music, and its courses are fully accredited by that organization.

Requirements for the Major

N. B. Students planning to major in Music should take Music Theory 181, 285, and Music History and Literature 271 in their first semester.

In Major Subject: Music Theory 181, 281, 285, 286, 381, 382, 385, 386, 481, 491; Music History and Literature 271, 272, 371, 372, 471, 472, plus 12 more credits in Music courses above the 100-level.

MUSIC HISTORY AND LITERATURE (MUHL)

251 — Music in Concert (1) (H)

Application of evaluative techniques and formal concert reporting using available live performance experiences.

255 — Introduction to Music (3) (H)

The developments of aural perception of music through examples of symphonic, choral, operatic, chamber, vocal, and keyboard works presented historically.

267 — Music and the Arts (3) (H)

Music-oriented humanities course emphasizing stylistic character and cultural climate of music in relationship to other arts of Western civilization.

269 — History of Musical Instruments (3) (H)

Evolution of musical instruments in Western culture, performance practices, literature and development of the orchestra.

271 — Medieval History and Literature (1) (H)

Historical concepts from antiquity through 1450. Cultural roles, liturgical developments and secular styles presented through representative compositions.

272 — Renaissance History and Literature (1) (H)

Historical concepts from 1450 through 1600. Cultural roles, liturgical developments and secular styles exemplified. Vocal and instrumental works demonstrated.

351 — Keyboard Literature (2) (H)

Historical survey of keyboard music written from the 17th century through the present, including works written for harpsichord, organ, and piano.

353 — Choral Literature (2) (H)

Sacred and secular literature from the Renaissance through the 20th century. Consideration of textual and musical content.

355 — Symphonic Literature (2)

A theoretical and historical study of orchestral music from its inception through the present. Examples from major works will be investigated.

357 — History of Opera (3)

Major developments in opera from 1600 to the present, including works by Monteverdi, Purcell, Mozart, Verdi, Wagner, Debussy, and Berg.

361 — History of American Music (3) (H)

Exploration of music brought to America by early settlers, its European roots, history and development from colonial times onwards.

367 — Twentieth Century Music (3) (H)

Twentieth-century practices in musical compositions and their relationship to the historical developments in music.

368 — History of Jazz (3) (H)

Development of jazz, ragtime, blues, dixieland, boogie-woogie, and later styles which evolved from jazz.

370 — Introduction to Electronic Music (3) (H)

Emphasis on historical development, current status, physical concepts, language and compositional techniques as they apply to synthesized music.

371 — Baroque History and Literature (1) (H)

Historical concepts from 1600 through 1750. The developments of operatic, choral, instrumental and solo literature. Representative works presented.

372 — Classical and Romantic History and Literature (1) (H)

The developments of instrumental, choral, keyboard and solo literature presented through definitive compositions.

468 — Choral Music for Church (1)

Comprehensive survey of selected choral offerings for the church. Participants sing and discuss choral techniques.

469 — Choral Music for School (1)

Comprehensive survey of selected choral offerings for the school. Participants sing and discuss choral techniques.

471 — Music Through Beethoven (2) (H)

Prerequisite: MUHL 271, 272, 371, 372 or equivalent. In depth study in music history culminating in analysis of specific, significant compositions. Research techniques are formulated.

472 — Music From Beethoven (2) (H)

Prerequisite: 471 or equivalent. In-depth experiences in music history culminating in analysis of specific, significant compositions. Research techniques are formulated.

491, 492 — Individual Study (1-3) (H)

Individual study under the direction of a Music Department faculty member. Details may be obtained from the chairperson. By permission of the Department.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department of Music. Credits variable.

THEORY OF MUSIC (MUTH)

181 — Introduction to Music Theory (3) (H)

Basic music theory explained. Modes, scales, clefs, intervals, notation, etc., conceptually presented with examples from early music.

281 — Pre-Baroque Music Theory (3) (H)

Prerequisite: MUTH 181 or equivalent. Species counterpoint, late 16th century polyphony, evolution of triads and emphasis on the motet and early chorale writing.

285 — Skill Development I (1)

Development and application of aural and written skills. Includes sight-singing, dictation and keyboard experiences. Companion course to MUTH 181; and must be taken by music majors with that course.

286 — Skill Development II (1)

Prerequisite: MUTH 285. See MUTH 285 for course description. Companion course to MUTH 281; and must be taken by music majors with that course.

369 — Orchestration (3) (H)

Prerequisite or corequisite: MUTH 382. Techniques of instrumental scoring considered historically and creatively.

381 — Baroque Music Theory (3) (H)

Prerequisite: MUTH 281. Explores major-minor tonality, figured bass, 7th chords, cadence formulae, modulations and progressions as exemplified in period pieces.

382 — Classical Music Theory (3) (H)

Prerequisite: MUTH 381. Harmonic syntax and structure of the post-Baroque era is covered. Includes altered chords, disintegration of tonality and advanced chromatism to the 20th century.

385 — Skill Development III (1)

Prerequisite: MUTH 286. See MUTH 285 for course description. Companion course to MUTH 381; and must be taken by music majors with that course.

386 — Skill Development IV (1)

Prerequisite: MUTH 385. See MUTH 285 for course description. Companion course to MUTH 382; and must be taken by music majors with that course.

481 — Contemporary Music Theory (3) (H)

Prerequisite: MUTH 382. Harmonic concepts of Hindemith, Schoenberg and other 20th-century composers are explored, including 12-tone techniques.

483 — Music Composition (3) (H)

Prerequisite or corequisite: MUTH 481 Compositional techniques focusing on selected style periods, featuring both large and small models. A creative project is required.

491 — Music History-Theory Seminar (2) (H)

Prerequisite or corequisite: MUTH 481, MUHL 472. Analysis from an historical and theoretical perspective.

MUSIC PERFORMANCE (MUPR)

Studio Lessons

Individual lessons (based upon placement audition) are offered advanced performers

A maximum of twelve hours in individual instruction is allowed toward the degree. However, all credits beyond this will be credited over and above the 122 hours required for graduation.

300-level courses constitute one half-hour lesson per week for one credit. 400-level courses constitute one hour lesson per week for two credits.

301, 401 — Voice
305, 405 — Piano
309, 409 — Harp
310, 410 — Organ
311, 411 — Flute
312, 412 — Oboe
313, 413 — Clarinet
314, 414 — Bassoon
315, 415 — Saxophone
321, 421 — French Horn
322, 422 — Trumpet
323, 423 — Trombone/Baritone
324, 424 — Tuba
325, 425 — Percussion
331, 431 — Violin
332, 432 — Viola
333, 433 — Violoncello
334, 434 — Contrabass
336, 436 — Guitar

201, 202, 203, 204 — Class Voice I, II, III, IV (1)

Class instruction for beginners through the intermediate level. Emphasis on the fundamentals of vocal techniques through performance. An audition is required for placement in 202, 203, and 204.

205, 206, 207, 208 — Class Piano I, II, III, IV (1)

Class instruction for beginners through the intermediate level. 205 and 206 deal with fundamental performance techniques, including note reading, while 207 and 208 emphasize musical expression. An audition is required for placement in 206, 207, and 208.

211, 212 — Class Woodwind Instruments (1)

Beginning class study in performance techniques of woodwind instruments.

221, 222 — Class Brasswind Instruments (1)

Beginning class study in performance techniques of brasswind instruments.

225 — Class Percussion (1)

Beginning class study in performance techniques of rudimental snare drumming.

231, 232 — Class String Instruments (1)

Beginning class study in performance techniques of string instruments.

236, 237 — Class Guitar (1)

Beginning class study of performance techniques of the guitar.

341 — Chorus (1)

Students have an opportunity to study and perform selected repertoire for women's voices representing all periods of music literature. Open by audition.

342 — Orchestra (1)

Orchestral literature from all periods of music performed. This group serves as a nucleus for the College-Community Orchestra. The College-Community Orchestra is comprised of students and community instrumentalists who enjoy performing orchestral repertoire. Open by audition.

343 — Keyboard Ensemble (1)

To give the keyboard performer experience in ensemble playing through literature for four hands, piano accompanying and sight reading.

344 — Instrumental Ensemble (1)

Performance experience for students whose interest is in small group participation. Open by audition.

347 — Choral Conducting (2)

Prerequisite or corequisite: MUTH 382, 386. Principles and techniques of choral conducting, including choral materials, choral arranging and program planning.

348 — Instrumental Conducting (2)

Prerequisite or corequisite: MUTH 382, 386. Principles and techniques of instrumental conducting, including materials, score reading and program planning.

MUSIC EDUCATION

359 — Music for the Elementary Classroom Teacher (3)

Objectives and processes of teaching music in the elementary schools with emphasis on music reading, conceptual learning and teacher competencies. For the non-music major who is preparing to teach in the elementary schools.

Teacher preparation classes for the music major are listed under the Department of Education: 317, 318.

470 — The Orchestra and the School (2)

Deals with the problems of maintaining an orchestral ensemble within the school.

Performing Arts

Department of Dramatic Arts and Dance

See *Dramatic Arts* for statement of departmental goals and program.

Requirements for the Major

In Major Subject: 36 credits in Performing Arts, including two years of Ballet, two years of Modern Dance, Dance 235, Drama 221, 222, 421, 422, Dance 491 or Drama 491, and ten additional credits in approved upper-level Dance or Drama courses.

Philosophy

Department of Clasics, Philosophy and Religion; Mr. Van Sant, Career Adviser.

Philosophy is the critical examination of our basic beliefs. It requires the analysis of abstractions, and it develops the ability to do research, organize results, and present these results in written or oral form.

Because the Department emphasizes creative research into philosophical problems as well as the competent expression of one's own views, philosophy can be studied profitably by a student majoring in any College program.

The objectives of the Department are to serve the academic program of the whole College by offering courses of interest to the scientist and mathematician, to the social scientist, and to the student interested in the humanities and literature.

The major in philosophy is of special interest to students who wish a deeper understanding of the history of the discipline and the interrelations between philosophical problems. The major is especially beneficial to students planning to enter the traditional professions of law, theology, or medicine. Many students give depth to their academic preparation by combining philosophy and another subject in a double major.

Requirements for the Major

In Major Subject: 24 credits in Philosophy courses of which 18 must be in upper-level courses.

In Other Subjects: 12 credits in approved related upper-level courses.

111 — Introduction: Morals and Society (3) (H)

Alternate views of the nature of morality.

151 — Introduction to Logic and Language (3) (H)

Valid forms of reasoning.

211 — Ethical Studies (3) (H)

The status and justification of moral judgments, and the reasons behind disagreements in moral issues.

244 — Philosophy of Science (3) (H)

Survey of modern philosophical writing about science.

304 — American Philosophy (3) (H)

Survey of American thought.

306 — Advanced Logic (3) (H)

Prerequisite: Philosophy 151 or completion of six hours of mathematics. Theory of formal systems; applied criteria of consistency, completeness and quantification; and other topics in symbolic logic.

312 — Aesthetics (3) (H)

Examination of a variety of attempts to validate norms of taste and of criticism.

320 — Philosophical Problems of Law (3) (H)

The relation between moral philosophy and criminal and civil law.

321 — Greek Philosophy (3) (H)

Selected works of Plato and Aristotle.

322 — Medieval Philosophy (3) (H)

Survey of scholastic philosophy.

343 — Existentialism (3) (H)

Recent philosophical developments in the continental European tradition.

344 — History of Scientific Thought (3) (H)

Prerequisite: completion of the natural science and mathematics degree requirement. Key developments in the history of scientific thinking.

354 — Philosophy of Education (3) (H)

Historical and contemporary philosophical examinations of the goals and methods of education.

371 — Seventeenth and Eighteenth Century Philosophy (3) (H)

Survey of major thinkers from Descartes to Hume.

372 — Kant (3) (H)

Selected major works of Immanuel Kant.

373 — Nineteenth and Twentieth Century Philosophy (3) (H)

Critical consideration of major thinkers and movements from the late 19th century to the present.

481 — Readings in Philosophy (3) (H)

Discussion of philosophical literature in a field selected by the Department after consultation with students.

491, 492, 493 — Individual Study (3-6) (H)

Tutorial under the direction of a member of the staff. By permission of the Department.

499 — Internship

Supervised off campus experience, developed in consultation with the Department. Credits variable.

Physical Education

Department of Health and Physical Education

Participation in physical activities, including physical education classes, recreational programs, and intercollegiate athletics, is considered an essential part of the educational experience at Mary Washington.

The center for all indoor health, physical education and recreation is Goolrick Hall. A modern 74,000 square foot building, it houses courts for basketball, volleyball, and badminton, two dance studios, a large swimming pool, one four-wall handball-racketball court, seven one-wall racketball courts, a 16-station weight machine, a table-tennis room, indoor golf and archery ranges, seven large classrooms, and an auxiliary gym for classes in individual exercise and gymnastics.

The outdoor facilities include fields for hockey, soccer, lacrosse, flag football, and softball, an archery range, a golf driving range and putting areas, a running trail, a track, and fourteen tennis courts (including a new ten-court lighted complex.)

Physical education courses include history, rules, and basic techniques in a wide range of individual and team sports. Riding courses are available for credit, but require a special fee. Health 100 provides an exposure to modern health problems.

HEALTH EDUCATION

100 — Contemporary Health Problems (3)

PHYSICAL EDUCATION

(Courses may be repeated for additional credit)

101, 301 — Field Hockey (1, 1)

103, 303 — Basketball (1, 1)

105, 305 — Volleyball (1, 1)

109, 309 — Lacrosse (1, 1)

111, 311 — Gymnastics (1, 1)

113, 313 — Individual Exercise (1, 1)

115, 316 — Swimming (1, 1)

119, 319 — Flag Football (1, 1)

123, 323 — Soccer (1, 1)

127, 327 — Folk and Social Dance (1, 1)

132, 332 — Racketball (1, 1)

133, 333 — Tennis (1, 1)

135, 335 — Golf (1, 1)

139, 339 — Archery (1, 1)

141, 341 — Fencing (1, 1)

145, 345 — Badminton (1, 1)

147 — Beginning Horsemanship (1)

Fundamentals of a good, balanced seat at the walk, trot, and canter; basic terminology of horsemanship and its equipment.

150 — First Aid (1)

247 — Intermediate Horsemanship (1)

Balanced seat with quiet control at all gaits; jumping fundamentals; the development of the horse and equine psychology.

315 — Advanced Life Saving (1)

347 — Advanced Horsemanship (1)

Polished style in hunter seat equitation; development of individual horses to their potential, on the flat and over fences; preparation for intercollegiate competition. Stable management, equine psychology, preventive medicine, and first aid.

401 — Intercollegiate Field Hockey (1)

403 — Intercollegiate Basketball (1)

405 — Intercollegiate Volleyball (1)

409 — Intercollegiate Lacrosse (1)

415 — Water Safety Instruction (1)

416 — Intercollegiate Swimming (1)

423 — Intercollegiate Soccer (1)

433 — Intercollegiate Tennis (1)

435 — Intercollegiate Golf (1)

471 — Intercollegiate Cross Country (1)

481 — Intercollegiate Track (1)

Physics

Department of Mathematical Sciences and Physics; Mr. Atalay, Career Adviser.

The courses offered in the Physics major are primarily theoretical in nature; however, well-equipped laboratories make it possible for upperclass students to engage in research.

The diversity of the curriculum allows students to pursue careers in industry, government, and teaching or to undertake graduate work. The Department also encourages double majors which enhances the job opportunities of graduates.

Requirements for the Major

In Major Subject: 24 credits in Physics courses above 204, including 321, 322, 331, 332, 411, 412.

In Other Subjects: 12 credits in approved related courses.

101, 102 — General Physics (4, 4) (N/M)

Introductory course. Primarily for non-science and non-physical science students. Stresses conceptual rather than mathematical aspects. Laboratory.

201, 202 — General Physics (4, 4) (N/M)

Corequisite: Math 121. Introductory course. Primarily for science students. Covers essentially the same as Physics 101, 102, except more mathematical rigor is employed. Laboratory.

203, 204 — General Astronomy (3, 3) (N/M)

Historical and descriptive survey of the physical universe. A limited laboratory is included.

311 — Atomic Physics (3) (N/M)

Prerequisite: General Physics. Foundations of quantum mechanics, atoms with one electron, multielectron atoms, molecules, solid state physics, the special theory of relativity.

312 — Nuclear Physics (3) (N/M)

Prerequisite: General Physics. Nuclear structure, static and dynamic properties, and fundamental particles. A limited laboratory includes experiments in alpha, beta and gamma-ray spectroscopy.

321, 322 — Classical Mechanics (3, 3) (N/M)

Prerequisite: Physics 102, or 202 or equivalent, and Mathematics 231. Kinematics and dynamics of mass particle, conservation laws. Lagrange, Hamiltonian methods, Hamilton's equations of motion, the special theory of relativity. Only in sequence.

331, 332 — Electricity and Magnetism (3, 3) (N/M)

Prerequisites: Mathematics 221 and General Physics. Foundations of electromagnetic theory. Emphasis on lectures and limited laboratory demonstrations. Only in sequence.

371 — Thermodynamics (3) (N/M)

Prerequisites: Mathematics 221 and General Physics. Temperature, thermodynamic states and variables, the laws of thermodynamics, entropy, thermodynamic potentials, change of phase.

382 — Electronics (3) (N/M)

Prerequisites: Mathematics 221 and General Physics. Introduction to the theory and operation of electronic instruments and basic circuilts. Limited lectures with emphasis on laboratory work.

391 — Optics (3) (N/M)

Prerequisites: Mathematics 221 and General Physics. Introduction to theory of physical optics, includes lectures and laboratory.

411, 412 — Quantum Mechanics (3, 3) (N/M)

Prerequisite: Physics 322. Schrodinger's equation, harmonic oscillator, matrix formulation of quantum mechanics, angular momentum, scattering theory, perturbation theory, relativistic quantum mechanics. The computer is often used for matrix manipulation. Only in sequence.

451, 452 — Methods of Theoretical Physics (3, 3) (N/M)

Prerequisites: Mathematics 221 and General Physics. Vectors, matrices, coordinates, functions of complex variable, differential equations, Fourier and Laplace transformation, vector spaces, variational methods, tensors, group theory. Only in sequence.

462 — Advanced Nuclear Physics (3) (N/M)

Prerequisite: Physics 312. Corequisites: Physics 411, 412. Mass, size and constitution of nuclei, nuclear models, two-body forces, scattering reactions, introduction to elementary particles. The computer is used for matrix computations. Usually taught as a summer course.

472 — Statistical Mechanics (3) (N/M)

Prerequisite: Physics 371. Ensembles, microcanonical, canonical and grandcononical distributions, Maxwell-Boltzmann, Bose-Einstein and Fermi-Dirac distributions.

482 — Physics Seminar (1) (N/M)

Open to third and fourth year physics students for credit.

491, 492 — Individual Study (3, 3) (N/M)

Open to junior and senior physics majors. Qualified seniors may undertake individual study, which culminates with a thesis, which may lead to Honors in Physics.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Political Science

Department of Economics, Business and Public Affairs; Mr. Krickus, Career Adviser.

Political science, basically the study of how various political systems work, offers courses ranging from urban politics and government to international politics. The Department also provides many outlets through which students can gain practical knowledge of the field, including visits to the Virginia state capital and to Washington, D.C., internships in governmental offices, and involvement in major political events, such as the United Nations' student conference. Like economics, political science is a good background for a career in law, urban planning, teaching, government and private enterprise; it also lends itself to further study in graduate school.

Requirements for the Major

In Major Subject: 101, 102; 24 additional credits in Political Science courses including 301, 302, two from among 441, 442, 443.

Recommended: Computer Science and Statistics.

101 — Introduction to Political Science I (3) (S)

Survey of the basic concepts and theories of political science from antiquity to the present, including contemporary analytical techniques.

102 — Introduction to Political Science II (3) (S)

Continuation of Political Science 101, with primary emphasis on modern comparative political analysis and international relations.

201, 202 — American Government (3, 3) (S)

Principles of political science as applied to American national government, state government and local government.

211 — Congress and the Political Process (3) (S)

Analysis of the contemporary role of Congress in its relation to the Presidency, the federal bureaucracy, and pressure groups.

212 — The American Presidency (3) (S)

Analysis of the modern Presidency and its relationship to democratic theory.

301 — Comparative Government I (3) (S)

Comparative analysis of the governments of the United Kingdom, France, and West Germany.

302 — Comparative Government II (3) (S)

Comparative analysis of the governments of the Soviet Union and Eastern Europe.

304 — Contemporary American Politics (3) (S)

In-depth analysis of selected problems in contemporary American politics.

311, 312 — Public Administration (3, 3) (S)

The administrative control and a study of employment relations and personnel administration.

321 — Theory of International Politics (3) (S)

Analysis of contemporary theory of international politics, including evaluation of the United Nations and other international organizations.

322 — Problems in International Politics (3) (S)

Analysis in depth of major contemporary problems in international politics.

332 — Metropolitan Problems (3) (S)

Analytical study of the problems of American cities and other areas.

334 — Political Parties (3) (S)

Structure and functions of political parties; conduct of elections; pressure groups.

341, 342 — Government Finance (3, 3) (S)

Expenditures and revenues of federal, state and local governments.

350 — Political Modernization (3) (S)

Conceptual approach to the problem of political modernization.

354 — Politics of South and Southeast Asia (3) (S)

Study of the Political development of India, Pakistan, Thailand, Laos, Cambodia, and Vietnam.

355 — Politics of North Africa and the Middle East (3) (S)

Study of the political development of the nations of North Africa and the Middle East.

356 — American Foreign Policy (3) (S)

Problems facing the United States in its search for national security and international stability.

357 — Soviet Foreign Policy (3) (S)

Analysis of the foreign policy of the Soviet Union, including its conflict with China.

360 — The Theory and Practice of Revolution (3) (S)

Comparative analysis of the writings of major theorists of revolution from various parts of the world.

361 — Problems of Communism (3) (S)

Study of the origins, development, and contemporary aspects of world communism.

362 — Political Geography (3) (S)

Study of geographic factors in world power and international affairs.

422 — American Civil Liberties (3) (S)

Intensive analysis of civil liberties in the United States, based primarily upon decisions of the Supreme Court.

441 — History of Political Thought I (3) (S)

Examination of the contributions of the great political theorists from Plato to Burke.

442 — History of Political Thought II (3) (S)

Examination of the contributions of modern political philosophies.

443 — Modern Political Analysis (3) (S)

Study of the theories and application of modern political analysis.

471 — Political Science Seminar (3) (S)

Emphasis on intensive reading with group discussion of the selections read.

491 — Individual Study in Political Science (3) (S)

Directed individual research on approved problems in political science.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Pre-Medical

Mrs. Southworth, Career Adviser.

Pre-medical students follow the regular degree program, majoring in any field, but in addition, with the assistance of the career adviser, select courses that are necessary to be considered for medical school and to prepare them for the medical college admissions test. Students planning to apply to a specific medical or dental school should carefully investigate the entrance requirements. Typically students complete the following science courses during the first two years: Biology 121, 122 — General Biology; Chemistry 111, 112 — General Chemistry; Mathematics 111 — Mathematical Analysis or Mathematics 121 — Calculus; Physics 201, 202 — General Physics; Chemistry 211, 212 — Organic Chemistry. In addition, students complete the competence and basic requirements and begin the major program. In the last two years, students complete the major program and may elect additional biology and chemistry courses to strengthen their science background.

Psychology

Department of Psychology; Mrs. Rabson, Career Adviser.

The principal objective of the Department of Psychology is to provide sound course coverage of a variety of content areas in the field of psychology (i.e., the study of behavior). This coverage includes both traditional areas and those that represent more recent trends and theoretical developments in the discipline.

The Department offers both a B.S. and B.A. degree in psychology. The B.S. curriculum provides theory, methodology, and individual research experience most useful to the student planning graduate training in social science. The B.A. degree provides a separate methodology appropriate to entry-level jobs in psychology and individual experience with applied psychology. Each major is assigned a faculty adviser to help plan a program best suited to the individual.

Career options available to majors include: teaching at the primary or secondary level (with an appropriate certification), social work, probation and parole, drug abuse counseling, and technical or counseling opportunities in a variety of mental health settings. Students interested in pursuing psychology as a long-range career will find the B.S. curriculum an excellent preparation for graduate study.

Requirements for the Major

B.A. Degree: In Major Subject: 30 credits in Psychology courses beyond 101, 102 including 261, 361 or 362, 421, 470 and at least one course from each of the following groupings: (1) 310, 331, 332; (2) 311, 315, 342, 301; (3) 345, 348, 394; (4) 307, 380, 381.

B.S. Degree: In Major Subject: 30 credits in Psychology courses beyond 101, 102 including 261, 361, 421, 491, and at least one course from each of the following groupings: (1) 310, 331, 332; (2) 311, 315, 342, 301; (3) 345, 348, 394; (4) 372, 373, 374.

101, 102 — General Psychology (3, 3) (S)

Fundamental principles of human behavior; biological antecedents; motivation; perception; learning; individual differences; intelligence; and personality. Only in sequence.

261 — Statistics and Research Methods (4) (S)

Consideration of fundamental statistical topics with laboratory integration of data collection and data analysis.

Psychology 101 and 102, or their equivalent, are prerequisite for all 300- and 400-level Psychology courses.

301 — Social Psychology (3) (S)

Individual behavior in a social context; socialization; attitudes, social perception, and behavioral interaction.

307 — Computer Applications in the Social Sciences (3) (S)

Prerequisite: Psychology 361 or 362. BASIC programming, statistical packages and applications, computer simulation, and the general use of the computer as a research tool.

310 — Psychology of Exceptional Children (3) (S)

Deviations in physical, intellectual and emotional development. Relevant theories, issues, and therapy programs.

311 — Abnormal Psychology (3) (S)

Examination of the major varieties of pathological behavior, explanatory models and modes of treatment.

315 — Foundations of Clinical Psychology (3) (S)

Theories and practices of the major schools of psychotherapy: psycho-analysis, client-centered, family systems, behavior modification, and community psychology.

325S — Educational Psychology (3) (S)

Both application and theory of learning and educational technology principles as they apply to the classroom setting.

331 — Developmental Psychology: The Infant and Child (3) (S)

Development from conception through childhood. Developmental processes, theories, issues and relevant research.

332 — Developmental Psychology: The Adolescent and Adult (3) (S)

Theories of, and research on, personality, social, physical and intellectual characteristics from adolescence to death.

342 — Psychology of Personality (3) (S)

Personality structure, dynamics, development, and methods of research.

345 — Psychology of Learning (3) (S)

Analysis of empirical and theoretical issues in learning. Both human and infrahuman topics will be considered.

348 — Psychology of Motivation (3) (S)

Primary and learned sources of motivation and their effects on behavior. Theory and data will be considered.

361 — Inferential Statistics and Research Methods (4) (S)

Prerequisite: Psychology 261. In-depth coverage of data analysis techniques and inferential tests with laboratory integration of data collection and data analysis.

362 — Applied Methods (4) (S)

Prerequisite: Psychology 261. An overview of methods commonly used in applied psychological settings. Topics include basic clinical methods, data skills and organizational interactions.

372 — Experimental Psychology: Sensation and Perception (4) (S)

Prerequisite: Psychology 361 or 362. A laboratory approach to the study of visual and auditory sensory and perceptual psychology, with emphasis on psychophysical methods.

373 — Experimental Psychology: Human Learning (4) (S)

Prerequisite: Psychology 361 or 362. An examination of method, data and theory in human learning and memory research.

374 — Experimental Psychology: Physiological Psychology (4) (S)

Prerequisite: Psychology 361 or 362. Critical survey of physiological correlates of behavior emphasizing neurophysiological mechanisms in perception, motivation and learning plus methods of physiological investigation.

380 — Psychological Tests and Measurements (4) (S)

Prerequisite: Psychology 361 or 362. Theory of test construction and the interpretation and uses of tests. Test administration and techniques of handling data.

381 — Applied Behavioral Analysis (4) (S)

Prerequisite: Psychology 361 or 362. Study and experience with the principles of operant conditioning as applied to the modification of human and animal behavior.

392 — Behavior Genetics (3) (S)

Prerequisites: One year of biology and one year of psychology. Principles of genetic transmission, gene action, population structure and evolutionary theory applied to problems in animal and human behavior.

394 — Psychopharmacology (3) (S)

Prerequisite: One year of biology or one year of chemistry. Introduction to principles of drug action in the body, drug effects on behavior and social psychology of drug use.

421 — History of Psychology (3) (S)

Survey of the historical antecedents of modern psychology.

470, 471, 472, 473, 474 — Selected Topics in Psychology (3 each) (S)

Enduring and/or contemporary issues in psychology.

491 — Individual Research (1-4) (S)

Prerequisite: Permission of departmental staff member. Empirical investigation and/or library research. Maximum of eight credit hours allowable toward fulfilling the major field requirement.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Public Administration

Department of Economics, Business and Public Affairs; Mr. Fickett, Career Adviser.

Public Administration involves the making and implementation of public policy. In large, complex, post-industrial societies, government bureaucracies are performing functions once the preserve of private enterprise, families, communities and voluntary organizations. The public administration major is designed to instruct the student in the assumptions and values that are the basis for public policymaking, the administration of public programs, the relationship between public administrators and elected officials, and the problems and prospects of holding both accountable for their actions.

Public Administration prepares students for careers in government, law, teaching, business. Majors in public administration are uniquely qualified to participate in the college's internship program, gaining practical knowledge by working for local, state, and federal agencies and private organizations involved in public affairs.

Requirements for the Major

Core Courses: 24 credits in Public Administration courses including Business Administration 231, 232, 300, Political Science 201, 311, 312, 401, 402.

In Other Subjects: 12 credits in approved related courses including Statistics 200.

311, 312 — Public Administration (3, 3)

The administrative control and a study of employment relations and personnel administration.

401 — Public Policy (3)

An examination of the public policy-making process, including discussion of contemporary public issues and the adoption and implementation of solutions to public problems. The course will highlight the major actors in the policy-making process as well as the environment within which they work.

402 — Comparative Public Policy and Administration (3)

A comparative analysis of the policy and administrative process in selected industrialized and developing countries. Emphasis is placed on identifying the variables that account for similarities and differences in this process between and among countries.

491 — Individual Study in Public Administration (3)

Directed individual research on approved problems in political science.

499 — Internship

Supervised off-campus experience developed in consultation with the Department. Credits variable.

Religion

Department of Classics, Philosophy and Religion; Ms. Clark, Career Adviser.

The Department of Religion acquaints students with ways of studying religion, the kinds of questions to be asked, and the kinds of answers which learning can and cannot yield.

Departmental offerings focus on the history and theology of the Western religious tradition. The small size of the Department permits personal attention, encouragement of individual interests, and a high degree of flexibility. A guided research course, taken by all senior majors, involves a senior paper.

The B.A. degree in religion equips students for graduate school or seminary study in religion, as well as in graduate programs in other fields. Career opportunities are not limited to those opened by further study. A religion major is a humanities student of broad cultural awareness trained to think, write, and express cogently, to enter into dialogue discerningly with diverse ideas and perspectives. Such training is requisite to any career and is ultimately practical in life itself.

Requirements for the Major

In Major Subject: 24 credits in Religion courses beyond the 100-level, of which at least 12 must be at the 300-level or above, including 401.

In Other Subjects: 12 credits in approved related courses.

105 — Introduction to Religion (3) (H)

Various approaches to the study of religion, their significance and limits; Eastern and Western traditions in relation to contemporary concerns.

111 — Introduction to Christian History (3) (H)

Selected topics in the development of Christianity and its institutions from the birth of the church to the present.

117 — Introduction to Christian Theology (3) (H)

The "how" as well as the "what" of theology is explored in relation to basic doctrines and concepts.

201 — Judaism (3) (H)

Historical and religious development of Judaism from Biblical times to the present.

202 — The Roman Catholic Tradition (3) (H)

Historical and theological development of western Catholic Christianity through the Second Vatican Council.

203 — The Protestant Tradition (3) (H)

Historical and theological development of Protestant denominations and sects from the Reformation to the present.

205 — The Hebrew Bible (3) (H)

The history, literature and religion of ancient Israel.

206 — The New Testament (3) (H)

Historical-critical methods of study are introduced and applied in investigating New Testament sources, forms and theological motifs.

217 — Primitive Religions (3) (H)

Religions of non-literate peoples. Emphasis is on interpretation of myths, rituals and shamanism.

220 — Studies in Suffering and Evil (3) (H)

A theological and literary examination of theodicy: "If God is good, whence evil?" Emphasis on humor and death.

231 — Special Studies in Religion (3) (H)

Among topics taught at different times: Women, Sexuality, and the Western Religious Tradition; Mysticism East and West; Christian Ethics Today.

271 — Studies in Faith and Literature (3) (H)

Study of relationships between Christian faith and literary art in the context of contemporary novels and plays.

281 — The Religions of India (3) (H)

Study of historical development and basic traditions of South Asian religions, especially Hinduism and Buddhism.

282 — The Religions of China and Japan (3) (H)

Study of historical development and basic traditions of East Asian religions, especially Buddhism, Confucianism, Taoism, Shintoism.

306 — Early Christian Thought (3) (H)

Theology of the early church with emphasis on the development of Trinitarian and Christological thought.

313 — Modern European Theology (3) (H)

Prerequisite: either Religion 111, 117, 202, or 203. Persons and problems of 20th century theology from Barth to Moltmann, from liberal to liberation theology.

314 — American Theology (3) (H)

Prerequisite: either Religion 111, 117, 202, or 203. Death of God, Secular, Black, Process and Play theologies are investigated; emphasis on present theological problems and possibilities.

331 — Special Studies in Religion (3) (H)

Among topics taught at different times: 19th Century Theology, Protestant Reformation.

341 — Major Religious Thinkers (3) (H)

Among thinkers studied in depth at different times: Augustine; Soren Kierkegaard; Elie Wiesel.

401 — Guided Research (3) (H)

Preparation of a senior paper under the direction of the Department. Required of all senior majors.

491, 492, 493, 494 — Individual Study (3 each) (H)

Individual work under the guidance of the Department. By permission of the Department.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Russian

Department of Modern Foreign Languages; Mr. Bozicevic, Career Adviser.

See *Modern Foreign Languages* for statement of departmental goals and program.

101-102 — Beginning Russian (6)

Fundamentals of spoken and written Russian.

201-202 — Intermediate Russian (6)

Prerequisite: Rus. 102 or equivalent. Review, completion of fundamentals, and reading.

291 — Reading, Composition and Conversation (3)

Prerequisite: Rus. 202 or equivalent. Alternate years; offered Fall 1980.

300 — Phonetics, Morphology and Syntax (3)

Sounds and transcription, structure, simple and compound sentences. Alternate years; offered Fall 1981.

315 — Russian Culture (3) (S)

Survey of art, dance, folklore, geopolitics, institutions, literature, music, religion, screen, theatre. Conducted in English. Alternate years; offered Spring 1981.

323 — Reading in Scientific Russian (3) (L)

Prerequisite: Rus. 202 or equivalent. Texts and terminology in various disciplines. Alternate years; offered Spring 1981.

324 — Readings in Commercial Russian (3) (L)

Prerequisite: Rus. 202 or equivalent. Composing and typing business letters; Russian trade techniques. Alternate years; offered Spring 1982.

395 — Russian Literature, XIX Century (3) (L)

Literary masters from Pushkin to Chekhov. Alternate years; offered Fall 1980.

396 — Russian Literature, XX Century (3) (L)

Transition from old to new — from Gorky to Solzhenitsyn. Conducted in English. Alternate years; offered Spring 1981.

397 — Dostoevsky and Tolstoy (3) (L)

Reading and analysis of representative works. Alternate years; offered Fall 1981.

481 — Russian Studies Seminar

Interdisciplinary topics.

491, 492 — Individual Study (3, 3) (L)

Research on adviser-approved topic in language or literature. Not to duplicate any regular course.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Russian Studies

Department of Modern Foreign Languages, Mr. Bozicevic, Career Adviser

An interdepartmental major, the Russian Studies program is area-oriented and includes study in Russian language and literature along with pertinent courses in economics, geography, music, history, political science, and sociology. It can be helpful to students seeking careers in government service, law, business, journalism, international affairs, and the natural sciences. A major in Russian Studies may also be combined effectively with any above-mentioned departmental majors or a foreign language major.

Requirements for the Major

Core Courses: 21 credits in core courses including six credits in upper-level Russian language courses (291, 300, 323, 324); six credits in Russian literature (315, 395, 396, 397); History 357, 358; Economics 391 or Political Science 302.

In Related Subjects: 15 credits in approved related courses.

Sociology

Department of Anthropology, Geography and Sociology; Mr. Sletten, Career Adviser

The major program in sociology offers a strong grounding in the development of sociological theory and methods of sociological research. Specific courses focus upon major aspects of social structure and social institutions. Individual study and research offers the student the possibility of working with faculty guidance in an area of special interest. Also available is internship experience in a community agency or organization with faculty and other professional supervision.

As a body of reliable knowledge and a method of scientific investigation, sociology provides the student with insights into the nature of culture, social structure, and the development of human personality.

Requirements for the Major

In Major Subject: 101, 102; 24 credits in Sociology courses at the 300 and 400 level; up to six hours of upper-level anthropology may be substituted for Sociology courses.

In Other Subjects: 12 credits in approved related courses in such fields as anthropology, psychology, history, political science, economics, statistics, linguistics and philosophy.

Recommended: Computer Science and Statistics; Sociology 362, 471, 472.

101 — Principles of Sociology (3) (S)

Basic characteristics of group life; status, role, social structure, culture and interaction between persons and groups.

102 — Social Problems (3) (S)

Social change, deviants, social and personal disorganization, mobility; delinquency, crime; political, industrial and other group conflicts.

303 — Culture, Social Structure and Personality (3) (S)

Impact of culture, social structure, and groups on individual attitudes and behavior. Alternate years; offered Spring 1981.

304 — Social Stratification (3) (S)

Prerequisite: Sociology 101. Analysis of inequality in society. Nature and effects of stratification in modern society.

311 — Demography and Human Ecology (3) (S)

Basic principles of social and formal demography. Relationship of social, economic and psychological factors on demographic processes. Alternate years; offered Spring 1981.

312 — Comparative Community Studies (3) (S)

Prerequisite: Sociology 101. Cross-cultural study of the impact of modernization, urbanization, and political centralization on communities. Alternate years; offered Spring 1981.

313 — Urban Sociology (3) (S)

Common problems of city living, ecological factors in growth of cities and their influence upon social behavior.

314 — Population Trends: Special Topics in Population (3) (S)

Intensive treatment of selected special topics in population. Alternate years; offered Spring 1982.

315 — Sex Roles and Society (3) (S)

A sociological study of sexual differentiation in American Society, with an emphasis on major societal institutions and social change. Offered Fall 1980 and Spring 1982.

331 — The Family (3) (S)

American families: changing patterns and emerging alternatives, including mate selection, marriage, divorce, child-rearing, single lifestyles, childlessness, communal living and socio-cultural variations.

332, 333 — Introduction to Social Welfare (3, 3) (S)

Prerequisite: Sociology 101, 102. First semester foci: historical backgrounds, philosophies, values, goals, and issues of human welfare concerns; and social welfare as a social institution. Second semester foci: social work as a profession; fields, methods, policies, and consequences of social action or inaction.

334 — Medical Sociology (3) (S)

How disease and health relate to social structure and culture; correlates of diseases. Organization and role analysis of health professions. Alternate years; offered Spring 1982.

341 — American Society (3) (S)

Overview of contemporary society; modifications of the liberal progressive ideology and organization; changing male and female roles; growth of bureaucracy; work and leisure. Alternate years; offered Spring 1981.

342 — Occupations and Social Structure (3) (S)

Treatment of major occupational groups; special emphasis upon professions and executive roles, including relationships with other aspects of society. Alternate years; offered Spring 1982.

351 — Juvenile Delinquency (3) (S)

Prerequisites: Sociology 101, 102. Sociological analysis of the nature, extent, causes, impact and treatment of juvenile delinquency. Alternate years; offered Fall 1980.

352 — Criminology (3) (S)

Crime, its nature, types, extent and historic trends; causal theories, mythical and scientific; programs of crime control, treatment and prevention.

362 — Methods of Social Research (3) (S)

Study design, observation, interviewing, questionnaire construction and administration, survey research and analysis, and other topics.

363 — Sociological Research: Data Analysis (3) (S)

Prerequisites: Sociology 101, Sociology 362, and Statistics 200. Analysis of data from sample surveys, census materials. Use of secondary data to prepare research reports. Alternate years; offered Spring 1982.

402 — Sociology of Human Development (3) (S)

The effect of factors such as social class, race, family, schools, religion and the mass media on children. Offered Fall 1981.

421 — Human Relations (3) (S)

American racial and ethnic groups; focus on Indians and Blacks; concepts of prejudice, discrimination, segregation, inter-group conflict, accommodation, cooperation. Alternate years; offered Spring 1982.

422 — Sociology of Religion (3) (S)

Prerequisite: Sociology 101 or instructor approval. Social factors in development and function of institutions in world religions; chief focus on Judeo-Christian tradition. Alternate years; offered Spring 1981.

431 — Sociology of the Aging (3) (S)

Prerequisite: Sociology 101 or 102 or Anthropology 101, or Psychology 101, or permission of instructor. Theories of aging, societal attitudes; other factors: demographic, status change, family relationships, and institutionalization of aged persons.

442 — Social Change (3) (S)

Theories of social change and evolution; analysis of historical changes. Alternate years; offered Spring 1982.

471 — History of Social Theory (3) (S)

Presentation and analysis of major forms and themes of social and early sociological theory from Greece to the 20th century.

472 — Contemporary Sociological Theories (3) (S)

Major sociological theorists of the 20th century.

488 — General Readings (3) (S)

Usually one set of readings on some major concepts or points of view in contemporary sociology with an emphasis upon discussion.

489 — Special Readings (3) (S)

One or several sets of readings and discussions from a sociological point of view. Student interest is important in selection of the topics.

491, 492, 493, 494 — Individual Study and Research (3) (S)

Available to qualified students. Reading and research; project or paper with guidance of a faculty member.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Spanish

Department of Modern Foreign Languages; Mrs. Stephenson, Career Adviser.

See *Modern Foreign Languages* for statement of departmental goals and program.

Requirements for the Major

In Major Subject: 24 credits in Spanish courses beyond 201-202, including 18 in literature (6 of which must be in Spanish American Literature) and 391, 392.

In Other Subjects: 12 credits in approved courses in literature, in another language, or in the history, geography, or arts of the country of the language studied.

101-102 — Beginning Spanish (6)

Grammar, composition, conversation, reading, laboratory use.

201-202 — Intermediate Spanish (6)

Grammar review, reading, oral work, laboratory use.

291, 292 — Studies in Language I (3, 3)

Grammar, composition, conversation.

315 — Spanish Civilization (3) (S)

History, art, music, customs, traditions of Spain.

316 — Spanish American Civilization (3) (S)

History, art, music, customs, traditions of South America.

321, 322 — Introduction to Spanish Literature (3, 3) (L)

History and study of examples of Spanish literature from Middle Ages to present day.

325 — Poetry of Spain (3) (L)

Poetry from the 11th century to the contemporary period.

331 — Literature of the Middle Ages and Renaissance (3) (L)

Poetry, drama, and prose of Spain from the 11th century to 1550. Offered 1980-81.

351 — Drama of the Golden Age (3) (L)

Lope de Vega, Tirso de Molina, Ruiz de Alarcón, Guillén de Castro, Moreto, Calderón.

352 — Prose of the Golden Age (3) (L)

Pastoral novel, picaresque novel, shorter novels of Cervantes.

362 — Spanish Literature of the Eighteenth Century (3) (L)

Feijoo, Luzán, Villarroel, Padre de Isla, Samaniego, Iriarte, Moratin, Ramón de la Cruz.

371 — Nineteenth Century Drama (3) (L)

Romantic drama, "alta comedia," and theater of ideas. Offered 1980-81.

372 — Nineteenth Century Novel (3) (L)

Valera, Alarcón, Pereda, Pardo Bazán, Alas, Palacio Valdes, Blasco Ibáñez. Pérez Galdós. Offered 1981-82.

375 — Spanish American Literature from the Colonial Period through the Period of Independence (3) (L)

Offered 1980-81.

376 — Spanish American Literature: Modernism (3) (L)

Poetry and prose of "modernismo," 1888 through the period of World War I. Offered 1980-81.

381 — The Generation of '98 (3) (L)

Includes Ganivet, Unamuno, Azorin, Baroja. Antonio Machado, Valle-Inclan, Ortega y Gasset, and others.

382 — Twentieth Century Drama (3) (L)

Includes Benavente, Garcia Lorca, Casona Buero Vallejo, Sastre, Arrabal, Mihura. Offered in 1981-82.

383 — Contemporary Spanish Prose (3) (L)

Emphasis on post-Civil War authors and productions. Offered 1980-81.

385, 386 — Twentieth Century Spanish American Literature (3, 3) (L)

Novel, poetry, drama, 1900 to present. Offered 1981-82.

391, 392 — Studies in Language II (3, 3)

Advanced grammar, composition, conversation. Required of majors. Offered 1981-82.

395, 396 — Spanish Literature in Translation (3, 3) (L)

Taught in English.

451 — Intensive Study of Cervantes (3) (L)

Principal emphasis on *Don Quijote*.

471 — Intensive Study of Galdós (3) (L)

Emphasis on selected Galdós novels. Offered 1980-81.

491, 492 — Individual Study (3, 3) (L)

Intensive study of one or more authors selected by student in consultation with adviser.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Speech

Department of English, Linguisitics, and Speech.

The objectives of the courses in Speech are to enhance student skills in oral communication through theory and practice in reading and speaking; to increase student understanding of the structure of the spoken language; and to provide students with a basic knowledge of the anatomy and physiology underlying the speech mechanism.

In addition to the specific pre-professional education afforded by the cooperative program, the Department provides students with the opportunity to increase their personal effectiveness in oral communication, an integral component of most vocations on the professional and supervisory level.

261 — Voice and Diction (3) (H)

Theory and practice of principles necessary to speech improvement. Individual analysis is offered to improve the student's voice, articulation, and pronunciation.

300 — Organizational Communication (3) (S)

A study of communication theory as it operates inside business and professional structures; an investigation of interpersonal, dyadic, small-group, and public communication.

301 — Group Discussion (3) (H)

Philosophy and practice of group discussion as a means of problem-solving and the exercise of group leadership. Alternate years; offered 1981-82.

302 — Public Speaking (3) (H)

A study of the art of public speaking; the composition, organization and delivery of speeches of various types. Alternate years; offered 1981-82.

331 — Oral Interpretation (3) (H)

Interpretation of prose, poetry and dramatic literature in terms of its intellectual, emotional and aesthetic content.

361 — Voice Science (3) (S)

A study of the anatomical, physiological and neurological functioning of the speech and hearing mechanisms. Alternate years; offered 1980-81.

362 — Phonetics (3) (S)

A study of American dialects and standards of speech employing the International Phonetic Alphabet. Alternate years; offered 1980-81.

491, 492 — Individual Study (3, 3) (H)

Individual study under the direction of a member of the staff. By permission of the Department.

499 — Internship

Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Speech Pathology and Audiology

Department of English, Linguistics, and Speech; Mr. Duke, Career Adviser.

A major program in speech pathology and audiology is offered in cooperation with the University of Virginia. Students complete three years at Mary Washington College, spend the senior year in residence at the University of Virginia, and receive their degrees from Mary Washington College. Full details on this program are available from the Chairperson.

Requirements for the Major

At Mary Washington College: Speech 361, 362 and two of the following: 261, 301, 302, 331, 332.

At University of Virginia: 30 credit hours of which at least 24 must be in the major field.

Recommended: Psychology 311, 331, 362 and Linguistics courses.

Statistics

Department of Mathematical Sciences and Physics.

The Department of Mathematical Sciences and Physics offers a variety of courses in statistics which provide a rational basis for inferential reasoning and emphasize the ability to reason statistically. They lay the groundwork for understanding institutional decision-making processes, quality of information, and effective use of common statistical tools.

Many students take statistics courses to strengthen understanding of the quantitative aspects of other disciplines. These courses also help to broaden career opportunities.

100 — Survey of Statistics (3)

Survey of statistical reasoning and its application intended for non-scientists. Application of statistics are illustrated using case histories from diverse fields.

200 — Introduction to Statistics (3) (N/M)

First course in statistical methods. Both parametric and nonparametric techniques. Examples from diverse fields.

321 — Introduction to Mathematical Statistics (3) (N/M)

Prerequisite: Math 221. A calculus based mathematical statistics course with special emphasis on applications in computer science.

401, 402 — Introduction to Probability and Statistical Inference (3, 3) (N/M)

Prerequisite: Math 231. Careful introduction to probability theory and theoretical statistics including both classical and Bayesian approaches to estimation and testing problems.

420 — Readings in Experimental Statistics (3) (N/M)

Prerequisite: Permission of the instructor. General linear models, experimental design and analysis, other topics as required.

Campus Map

1 GEORGE WASHINGTON HALL
Administration Hall

2 WESTMORELAND HALL
Residence Hall

3 HAMLET HOUSE
Residence Hall

4 FAIRFAX HOUSE
Alumni House

FAIRFAX ANNEX
Student Government

5 MADISON HALL
Residence Hall

6 MARY BALL HALL
Residence Hall

7 CUSTIS HALL
Residence Hall

8 CHANDLER HALL
Academic Hall

9 SEACOBECK HALL
Dining Hall

10 GOVERNMENT POST OFFICE

11 MELCHERS HALL
Academic Hall

12 duPONT HALL
Academic Hall

13 HEATING PLANT

14 POLLARD HALL
Academic Hall

15 ATHLETIC FIELDS

16 GOOLRICK HALL
Gymnasium

17 HUGH MERCER
Health Center, and
Counseling Center

18 WILLARD HALL
Residence Hall

19 MONROE HALL
Academic Hall

20 VIRGINIA HALL
Residence Hall

21 LEE HALL
Student Activities

22 TRINKLE LIBRARY

23 AMPHITHEATER

24 MARYE HALL
Spanish House

25 MASON HALL
Residence Hall

26 RANDOLPH HALL
Residence Hall

27 BUSHNELL HALL
Residence Hall

28 COMBS SCIENCE HALL
Academic Hall

29 JEFFERSON HALL
Residence Hall

30 BRENT HALL
French House

31 RUSSELL HALL
Residence Hall

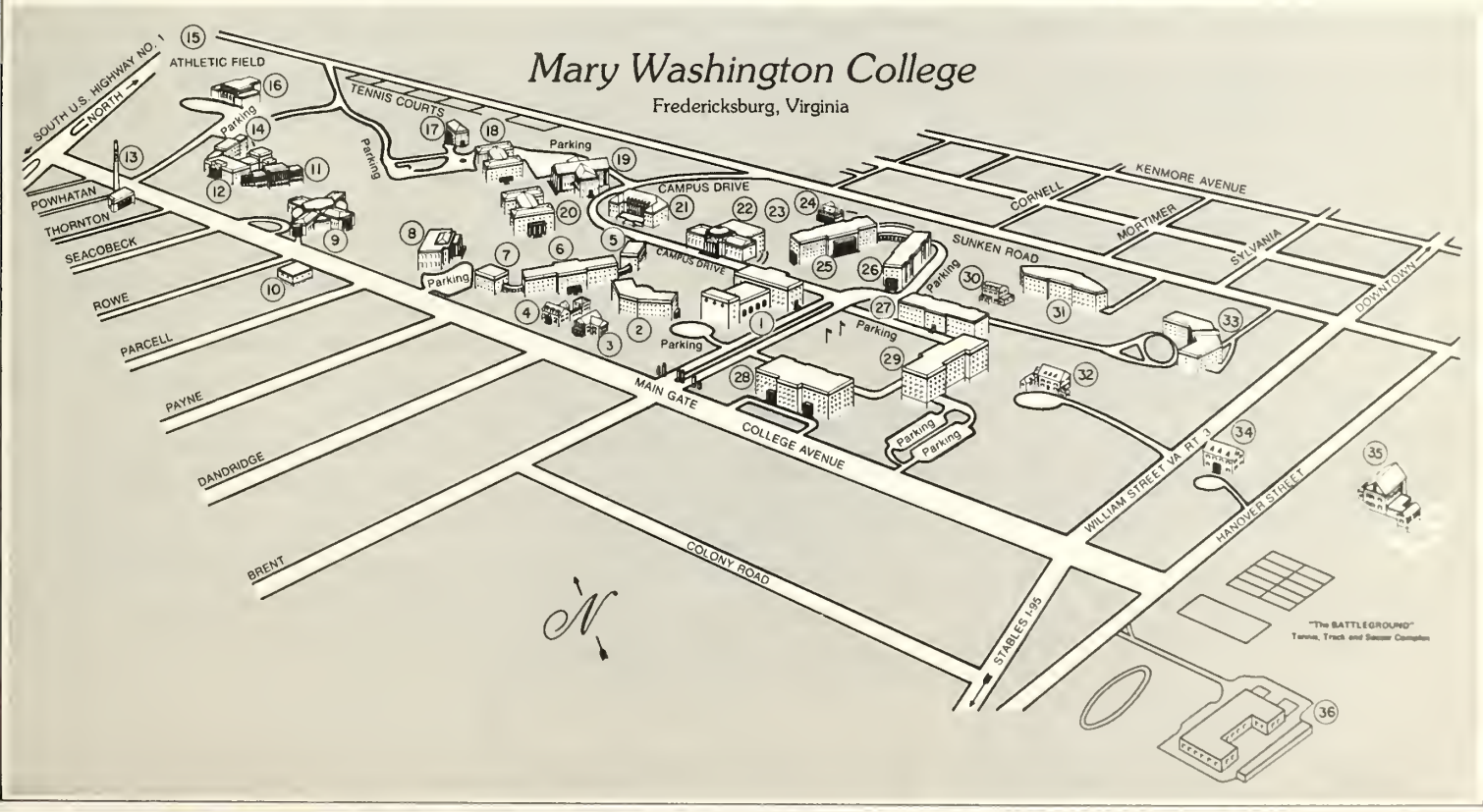
32 FRAMAR HALL
Residence Hall

33 MARSHALL HALL
Residence Hall

34 TRENCH HILL
Residence Hall

35 BROMPTON
President's Home

36 MAINTENANCE



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Joseph Earl Blackburn, Potomac, MD.
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John G. Casties, Corbin
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Warner N. Dalhouse, Roanoke
Katherine Edmondson Hopper ('29), Fairfax
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Administration

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Anne A. Moyse, *Secretary to the President*

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Office of the Executive Vice President

William M. Anderson, Jr., B.S., M.P.A., Ed.D., *Executive Vice President*

Betsy J. Chinn, A.S., *Secretary to the Executive Vice President*

Linda N. Evans, B.A., *Director of Information Services*

Edward H. Littlefield, B.S., *Director of Personnel*

Daniel W. Bishop, *Chief of College Police*

Office of the Vice President for Academic Affairs and Dean

Mary Ann T. Burns, B.A., A.M., Ph.D., *Vice President for Academic Affairs and Dean*

Vera M. Jacobs, *Secretary to the Vice President for Academic Affairs and Dean*

Roy B. Weinstock, B.A., M.A., Ph.D., *Associate Dean for Academic Services*

Donald E. Glover, B.A., M.A., Ph.D., *Director of Graduate Studies*

Ronald B. Head, B.A., M.A., Ph.D., *Assistant Dean for Career Services*

Margaret T. Ball, B.A., M. Ed., *Academic Counselor*

Mary I. Kemp, B.A., *Administrative Assistant*

Office of the Vice President for Continuing Education

A. Ray Merchent, B.A., M.Ed., Ed.D., *Vice President for Continuing Education*

Lucretia H. Oesterheld, *Secretary to the Vice President for Continuing Education*

Nancy O. Carter, *Recorder, Office of Student Records*

Office of the Dean of Admissions and Financial Aid

H. Conrad Warlick, B.A., M.A., Ed.D., *Dean of Admissions and Financial Aid*

Susan H. Talley, *Secretary to the Dean of Admissions and Financial Aid*

G. Forrest Dickinson, Jr., B.A., *Assistant Dean of Admissions and Financial Aid*

Sallie F. Washington, B.A., *Assistant Dean of Admissions and Financial Aid*

Martin A. Wilder, Jr., B.A., M.Ed., *Assistant Dean of Admissions and Financial Aid*

Office of the Vice President for Business and Finance

Gloria S. Day, *Secretary to the Vice President for Business and Finance*

Lester E. McMenamin, Jr., B.S., B.C.E., M.S.C.E., *Director of the Physical Plant*

Ross C. Chaimson, B.A., M.S., *Assistant Director of the Physical Plant*

Warren T. Leback, B.A., M.L.A., *Landscape Superintendent*

Carolyn S. Taylor, B.S., M.S., *Manager, Bookstore*

Office of the Dean of Students

Suzanne E. Gordon, B.S., M.A., Ph.D., *Dean of Students*

Claire Talley Booker, *Administrative Assistant*

Catherine B. Wegner, B.A., M.S., *Assistant Dean of Students*

George W. Edwards, A.B., M.Ed., *Assistant Dean of Students*

Betty L. Luttrell, *Administrative Assistant*

Mary A. K. Kelly, B.A., M.A., *Director of Counseling Center*

A. Isabel Gordon, *Director of Career Placement*

Ilma M. Overman, B.S., M.D., *College Physician*

Raymond S. Jones, B.S., M.B., *Associate Physician*

Louis B. Massad, B.S., M.D., *Associate Physician*

Virginia H. Cullen, R.N., *Head Nurse*

Library

Ruby Y. Weinbrecht, B.A., M.A., *Librarian*

Sherry C. Morgan, *Secretary to the Librarian*

Charles D. Balthis, B.A., M.S.L.S., *Head Cataloger*

John P. Bissett, B.A., M.S.L.S., *Head, Technical Services*

Renna H. Cosner, A.B., A.M.L.S., *Acquisitions Librarian*

Catharine K. Hall, B.A., M.L.S., *Readers Services (Reference)*

Sheila M. McGarr, B.A., M.S.L.S., *Readers Services (Circulation)*

Office of Development

George E. Ball, A.B., *Director of Development*

Carolyn S. George, *Secretary to the Director of Development*

Office of the Alumni Association

Mary B. Carson, B.A., *Director of Alumni Affairs*

Fannie M. Ellis, *Secretary to the Director of Alumni Affairs*

Emeriti

President Emeritus

Grellet C. Simpson, B.A., M.A., Ph.D., L.L.D., Litt.D., L.H.D.
President Emeritus and Professor Emeritus of English
B.A., Randolph-Macon College; M.A., Ph.D., University of Virginia; L.L.D., Randolph-Macon College; Litt.D., Flagler College; L.H.D., Mary Washington College

Dean Emeritus

James H. Croushore, B.A., M.A., Ph.D.
Dean Emeritus and Professor Emeritus of English
B.A., M.A., Lehigh University; Ph.D., Yale University.

Faculty Emeriti

Philip J. Allen, A.B., M.A., B.D., Ph.D.
Professor Emeritus of Sociology
A.B., Ohio Northern University; M.A., Northwestern University; B.D., Garrett Theological Seminary; Ph.D., The American University.

Edward Alvey, Jr., B.A., M.A., Ph.D., L.H.D.
Professor Emeritus of Education
B.A., M.A., Ph.D., University of Virginia; L.H.D., Mary Washington College.

Margery E. Arnold, B.A., M.A.
Associate Professor Emeritus of Health, Physical Education and Recreation
B.S., Russell Sage College; M.A., Columbia University.

Rachel J. Benton, B.A., M.A., Ph.D.
Professor Emeritus of Health, Physical Education and Recreation
B.A., De Pauw University; M.A., Ph.D., State University of Iowa.

Julien Binford
Professor Emeritus of Art
Graduate, Art Institute of Chicago, Ryerson Fellowship for study in France, Virginia Museum Senior Fellowship, Rosenwald Fellowship. Represented in permanent collections of Boston Museum of Fine Arts, University of Georgia, University of Nebraska, Art Institute of Fine Arts, Springfield Museum, New Britain Museum, Oberlin College and others.

Zoe W. Black, B.A., A.M., Ph.D.
Professor Emeritus of Biology
B.A., University of Tennessee; A.M., Ph.D., Duke University.

Mildred M. Bolling, A.B., A.M.
Professor Emeritus of Modern Foreign Languages
A.B., Colorado College; A.M., University of Missouri, diploma, Institut de Phonetique, University of Paris.

Stanley F. Bulley, L.R.A.M. Mus. Bac., Mus. Doc.
Professor Emeritus of Music
L.R.A.M., Royal Academy of Music; Mus. Bac., Mus. Doc., University of Toronto.

William A. Castle, B.S., Ph.D.
Professor Emeritus of Biology
B.S., Denison University; Ph.D., University of Chicago.

Marion K. Chauncey, B.M., M.A.
Associate Professor Emeritus of Music
Graduate, Georgia State Woman's College; B.M., Ithaca Conservatory of Music; M.A., Columbia University.

Eileen K. Dodd, Ph.B., M.A., Ph.D.
Professor Emeritus of Psychology
Ph.B., Muhlenberg College; M.A., Ph.D., New York University.

Jean Slater Edson, A.B., M.A.
Professor Emeritus of Music
A.B., Vassar College; M.A., Columbia University.

E. Boyd Graves, A.B., A.M., Ed.D.
Professor Emeritus of Philosophy
A.B., A.M., College of William and Mary; Ed.D., George Washington University.

William W. Griffith, A.B., B.S. in L.S., M.A., Ph.D.
Professor Emeritus of English
A.B., University of Pennsylvania; B.S. in L.S., Drexel Institute; M.A., Harvard University; Ph.D., University of Pittsburgh.

Anne F. Hamer, B.M., M.M.
Associate Professor Emeritus of Music
B.M., University of Michigan
M.M., The Catholic University of America.

Margaret Hargrove, A.B., A.M., Ph.D., L.H.D.
Professor Emeritus of Classics
A.B., Randolph-Macon Woman's College; A.M., Ph.D., Cornell University; L.H.D., Lake Erie College.

Henry W. Hewetson, B.A., M.A., Ph.D.
Professor Emeritus of Economics
B.A., University of Toronto; M.A., University of British Columbia; Ph.D., University of Chicago.

Catherine H. Hook, B.S., M.E.D.
Associate Professor Emeritus of Education
B.S., Madison College; M.E.D., University of Virginia.

Levin Houston, III, B.A.
Associate Professor Emeritus of Music
B.A., Virginia Military Institute.

Anna S. Hoye, A.B., M.S., Ph.D.
Professor Emeritus of Biology
A.B., Lynchburg College; M.S., Ph.D., University of Wisconsin.

Earl G. Insley, B.S., Ph.D.
Professor Emeritus of Chemistry
B.S., Ph.D., Johns Hopkins University.

Edwin H. Jones, B.A., M.A., Ph.D.
Professor Emeritus of Modern Foreign Languages
B.A., Hampden-Sydney College; M.A., Duke University; Ph.D., University of Virginia.

Walter B. Kelly, B.S., M.A., Ph.D.
Professor Emeritus of English
B.S., Ursinus College; M.A., Ph.D., University of Pennsylvania.

Pauline G. King, B.S., M.A., Ph.D.
Professor Emeritus of Art
B.S., Mary Washington College; M.A., George Peabody College; Ph.D., University of Chicago.

Kurt F. Leidecker, B.A., A.M., Ph.D.
Professor Emeritus of Philosophy
B.A., A.M., Oberlin College; Ph.D., University of Chicago.

Almont Lindsey, B.S., M.A., Ph.D.
Professor Emeritus of History
B.S., Knox College; M.A., Ph.D., University of Illinois.

George E. Luntz, B.M., M.M., Ph.D.
Professor Emeritus of Music
B.M., M.M., Dana School of Music; Ph.D., State University of Iowa.

Fred E. Miller, A.B., M.A.
Associate Professor Emeritus of Economics
A.B., M.A., Colorado State College of Education.

Claudia M. Read, B.S., M.A.
Professor Emeritus of Health, Physical Education and Recreation
B.S., Woman's College of the University of North Carolina; M.A., New York University.

Carmen L. Rivera, B.A., M.A., Ph.D.
Professor Emeritus of Modern Foreign Languages
B.A., University of Puerto Rico; M.A., Florida State College for Women; Ph.D., University of Salamanca.

Laura V. Sumner, A.B., M.A., Ph.D.
Professor Emeritus of Classics
A.B., Vassar College; M.A., Ph.D., Johns Hopkins University.

Raiford E. Sumner, B.A., M.A., Ph.D.
Professor Emeritus of Political Science
B.A., University of Tennessee; M.A., University of Mississippi; Ph.D., Louisiana State University.

Dorothy D. Van Winckel, B.S., M.A.
Professor Emeritus of Art
B.S., University of Tennessee; M.A., Peabody College.

Reginald W. Whidden, B.A., M.A., Ph.D.
Professor Emeritus of English
B.A., M.A., McMaster University; Ph.D., Yale University.

Edgar E. Woodward, B.S.
Professor Emeritus, Comptroller
B.S., Ohio State University.

Faculty[1]

Ernest C. Ackerman, B.A., M.A., Ph.D. (1980, 1980)
Associate Professor of Computer Science
B.A., Montclair State College; M.A., Ph.D., Pennsylvania State University.

William M. Anderson, Jr., B.S., M.P.A., Ed.D. (1978, 1976)
Professor, Executive Vice President
B.S., Virginia Commonwealth University; M.P.A., West Virginia College of Graduate Studies; Ed.D., Virginia Polytechnic Institute and State University.

Clavio F. Ascari, Dottore in L.L.M.M. (1979, 1965)
Professor of Modern Foreign Languages
Dottore in Lettere Monderne, Universita Bocconi, Milan.

Bulent I. Atalay, B.S., M.S., M.A., Ph.D. (1974, 1966)
Professor of Physics
B.S., M.S., Georgetown University; M.A., (By Decree) Oxford University; Ph.D., Georgetown University.

Roger W. Bailey, B.M.E., M.M.S. (1977, 1973)
Assistant Professor of Music
B.M.E., Westminster Choir College; M.M.S., Temple University.

James E. Baker, M.S., M.Ed., D.M.A. (1976, 1965)
Professor of Music
B.S., M.Ed., Pennsylvania State University; D.M.A., The Catholic University of America.

James M. Baley, B.A., M.A., Ph.D. (1978, 1977)
Instructor in Philosophy
B.A., University of Connecticut; M.A., University of Miami; Ph.D., University of North Carolina.

George E. Ball, A.B. (1978, 1978)
Assistant Professor, Director of Development
A.B., Brown University.

Margaret T. Ball, B.A., M.Ed. (1979, 1979)
Lecturer, Advising Counselor
B.A., M.Ed., Duke University.

Charles D. Balthis, B.A., M.S.L.S. (1969, 1969)
Instructor, Head Cataloger
B.A., Randolph-Macon; M.S.L.S., Catholic University of America.

[1]The first date indicates the year when the present rank was attained; the second date the year when the individual was first appointed to the staff.

Michael L. Bass, A.A., B.S., M.S., Ph.D.
(1977, 1968)
Associate Professor of Biological Sciences
A.A., Clinch Valley College; B.S., Virginia Polytechnic Institute; M.S., Medical College of Virginia; Ph.D., Virginia Polytechnic Institute and State University.

J. Christopher Bill, A.B., M.S., Ph.D.
(1980, 1972)
Associate Professor of Psychology
A.B., College of the Holy Cross; M.S., University of Bridgeport; Ph.D., Dartmouth College.

John P. Bissett, B.A., M.S.L.S. (1980, 1980)
Assistant Professor, Head, Technical Services, Library
B.A., Florida State University; M.S.L.S., Florida State University.

Porter R. Blakemore, A.B., M.A., Ph.D.
(1979, 1979)
Assistant Professor of History
A.B., University of North Carolina; M.A., Madison College; Ph.D., University of Georgia.

Juliette B. Blessing, L. es L., D.E.S., Doct. U.
(1980, 1957)
Professor of Modern Foreign Languages
L. es L., University of Lille; D.E.S., University of Paris; Doct. U., University of Dijon.

Roger J. Bourdon, B.S., M.S., Ph.D.
(1975, 1968)
Professor of History
B.S., Loyola University; M.A., Ph.D., University of California at Los Angeles.

Marshall E. Bowen, B.Ed., M.A., Ph.D.
(1975, 1965)
Professor of Geography
B.Ed., Plymouth Teachers College; M.A., Kent State University; Ph.D., Boston University.

Joseph Bozicevic, B.S., M.A., Ph.D. (1973, 1961)
Professor of Modern Foreign Languages
B.S., Juniata College; M.A., Middlebury College; Ph.D., Georgetown University.

Nathaniel H. Brown, A.B., M.A., Ph.D.
(1972, 1961)
Professor of Engligh
A.B., Princeton University; M.A., Syracuse University; Ph.D., Columbia University.

Mary Ann T. Burns, B.A., A.M., Ph.D.
(1979, 1979)
Professor of Classics
Vice President for Academic Affairs and Dean
B.A., Rosemont College; A.M., Ph.D., University of Pennsylvania.

David W. Cain, A.B., B.D., M.A., Ph.D.
(1978, 1970)
Associate Professor of Religion
A.B., Princeton University; B.D., Yale University; M.A., Ph.D., Princeton University.

Otho C. Campbell, B.A., M.A., Ph.D.
(1979, 1968)
Associate Professor of History
B.A., Richmond College; M.A., The American University; Ph.D., The University of Virginia.

L. Clyde Carter, Jr., B.A., M.Div., Ph.D.
(1966, 1948)
Professor of Sociology
B.A., Carson-Newman College; M.Div., Union Theological Seminary; Ph.D., Yale University.

Elizabeth A. Clark, A.B., M.A., Ph.D.
(1973, 1964)
Professor of Religion
A.B., Vassar College; M.A., Ph.D., Columbia University.

Juanita H. Clement, B.A., M.A. (1973, 1969)
Associate Professor of Health and Physical Education
B.S., Radford College; M.A., George Peabody College.

Marjorie O. Collins, B.A., M.A., Ph.D.
(1978, 1978)
Assistant Professor of English & Linguistics
B.A., University of Wales; M.A., Hunter College; Ph.D., University of Michigan.

Joseph L. Conroy, A.B., M.A., Ph.D.
(1977, 1977)
Assistant Professor of Mathematical Sciences
A.B., Providence College; M.A., Ph.D., Duke University.

C. Barrie Cook, M.D.
Adjunct Lecturer
Pathologist-Director, School of Medical Technology, Fairfax Hospital.

Renna H. Cosner, A.B., A.M.L.S. (1979, 1959)
Assistant Professor, Acquisitions Librarian
A.B., Randolph-Macon Woman's College; A.M.L.S., University of Michigan.

Herbert L. Cover, B.S., M.S., Ph.D.
(1966, 1949)
Professor of Chemistry
B.S., M.S., Ph.D., University of Virginia.

William B. Crawley, Jr., B.A., M.A., Ph.D.
(1975, 1970)
Associate Professor of History
B.A., Hampden-Sydney College; M.A., Ph.D., University of Virginia.

Judith A. Crissman, B.A., Ph.D. (1980, 1968)
Professor of Chemistry
B.A., Thiel College; Ph.D., University of North Carolina

Steven L. Czarsty, B.S.B.A., M.B.A., D.B.A.,
(1979, 1978)
Associate Professor of Economics
B.S.B.A., University of Hartford; M.B.A., University of Connecticut; D.B.A., George Washington University

Thomas V. Dagenhart, Jr., B.A., M.S.
(1979, 1979)
Instructor in Geology
B.A., M.S., University of Virginia.

Thomas J. Davies, B.A., M.A. (1978, 1978)
Assistant Professor of Health and Physical Education
B.A., M.A., Brigham Young University.

Daniel A. Dervin, B.S., M.A., Ph.D.
(1974, 1967)
Associate Professor of English
B.S., Creighton University; M.A., Ph.D., Columbia University.

Joseph C. DiBella, B.A., M.A., M.F.A.
(1977, 1977)
Assistant Professor of Art
B.A., Rutgers College; M.A., M.F.A., Northern Illinois University; Certificate, Art Instruction Schools.

G. Forrest Dickinson, Jr., B.A. (1974, 1974)
Instructor, Assistant Dean of Admissions and Financial Aid
B.A., Washington and Lee University.

Joseph G. Dreiss, B.A., M.A. (1980, 1976)
Assistant Professor of Art
B.A., Fairleigh Dickinson University; M.A., Rutgers University; Ph.D., State University of New York (Binghamton).

Mildred A. Droste, B.S., M.Ed. (1967, 1954)
Associate Professor of Health and Physical Education
B.S., Longwood College; M.Ed., Woman's College of University of North Carolina.

Albert G. Duke, A.B., M.A. (1969, 1952)
Associate Professor of English and Speech
A.B., M.A., Syracuse University.

George W. Edwards, A.B., M.Ed. (1979, 1979)
Instructor, Assistant Dean of Students
A.B., M.Ed., West Georgia College.

Samuel T. Emory, Jr., A.B., M.A., Ph.D.
(1968, 1959)
Professor of Geography
A.B., M.A., University of North Carolina; Ph.D., University of Maryland.

Lewis P. Fickett, Jr., A.B., L.L.B., M.P.A., Ph.D. (1968, 1963)
Professor of Political Science
A.B., Bowdoin College; L.L.B., M.P.A., Ph.D., Harvard University.

Martha V. Fickett, B.A., M.M. (1972, 1968)
Instructor in Music
B.A., Mary Washington College; M.M., University of Michigan.

Victor A. Fingerhut, B.A., M.A. (1971, 1967)
Associate Professor of Political Science
B.A., M.A., Yale University.

Delmont F. Fleming, B.A., M.A., Ph.D. (1978, 1966)
Professor of English
B.A., Eastern Baptist College; M.A., Ph.D., University of Pennsylvania.

Janet L. Fraser, B.A., M.A., Ph.D. (1969, 1969)
Assistant Professor of Philosophy
B.A., Leeds University; M.A., Bedford College, University of London; Ph.D., University of Georgia.

Ruth T. Friedman, B.S., Ph.D. (1979, 1967)
Professor of Biological Sciences
B.S., Ph.D., Medical College of Virginia.

Stephen W. Fuller, B.S., Ph.D. (1977, 1972)
Associate Professor of Biological Sciences
B.S., Cornell University; Ph.D., University of New Hampshire.

James C. Gale, M.D.
Adjunct Lecturer
Director, School of Medical Technology, Roanoke Memorial Hospitals.

Constance A. Gallahan, B.S., M.S. (1979, 1977)
Assistant Professor of Health and Physical Education
B.S., Longwood College; M.S., University of Tennessee.

John K. George, A.B., M.S., Ph.D. (1976, 1967)
Associate Professor of Chemistry
A.B., Columbia College; M.S., University of Connecticut; Ph.D., University of Virginia.

Suzanne M. Gill, B.S., M.Ed. (1978, 1978)
Instructor in Education
B.S., Madison College; M.Ed., University of Virginia.

Donald E. Glover, B.A., M.A., Ph.D. (1973, 1961)
Professor of English, Director of Graduate Studies
B.S., College of William and Mary; M.A., Ph.D., University of Virginia.

Jeanne Chalifoux Goddin (1963, 1963)
Instructor in Music
Graduate, Curtis Institute of Music.

Roy M. Gordon, B.A., M.S. (1978, 1977)
Assistant Professor of Health and Physical Education
B.A., Harpur College of the State University of New York; M.S., Springfield College.

Suzanne E. Gordon, B.S., M.A., Ph.D. (1979, 1979)
Associate Professor, Dean of Students
B.S., Youngstown State University; M.A., Kent State University; Ph.D., Florida State University.

James B. Gouger, B.A., M.A., Ph.D. (1978, 1969)
Associate Professor of Geography
B.A., Montclair State College; M.A., Ph.D., University of Florida.

Jean C. Graham, B.A., M.M. (1977, 1977)
Instructor in Dance
B.A., Mary Washington College; M.M., Florida State University.

Roy F. Gratz, B.S., M.A., Ph.D. (1980, 1975)
Associate Professor of Chemistry
B.S., University of Pittsburgh; M.A., Ph.D., Duke University.

Miriam J. Greenberg, B.S., M.Ed. (1967, 1953)
Associate Professor of Health and Physical Education
B.S., M.Ed., University of Maryland.

Marilla M. Haas, B.A., M.M.Ed. (1978, 1978)
Instructor in Music
B.A., Mary Washington College; M.M.Ed., Virginia Commonwealth University.

Catharine K. Hall, B.A., M.L.S. (1978, 1978)
Instructor, Readers Services Librarian (Reference)
B.A., Goucher College; M.L.S., University of Maryland.

Susan J. Hanna, B.A., M.A., Ph.D. (1979, 1968)
Professor of English
B.A., Ohio State University; M.A., Ph.D., University of Michigan.

Richard E. Hansen, B.A., M.A., Ph.D. (1976, 1966)
Associate Professor of English
B.A., M.A., Ph.D., Duke University.

Teruo Hara, B.A., M.A. (1972, 1968)
Associate Professor of Art
B.A., M.A., Tokyo Kyoiko University.

Anna Mae Harris, B.A., M.A. (1963, 1958)
Associate Professor of Mathematical Sciences
B.A., Mary Washington College; M.A., University of Virginia.

Diane F. Hatch, A.B., M.A., Ph.D. (1979, 1966)
Associate Professor of Classics
A.B., Sweet Briar College; M.A., Ph.D., University of North Carolina.

Sonja D. Haydar (1980, 1968)
Associate Professor of Dance
Professional Dance Certificate; Zagreb State Opera Ballet School, Yugoslavia; diploma, Meister Staten Fur Tranz, Berlin, Germany; Mozarteum Conservatory of Music, Salzburg, Austria.

Ronald B. Head, B.A., M.A., Ph.D. (1978, 1978)
Assistant Professor, Assistant Dean for Career Services
B.A., Washington and Lee University; M.A., Ph.D., University of Virginia.

Edward H. Hegmann, II., B.S., M.S., Ed.D. (1978, 1976)
Associate Professor of Health and Physical Education, Director of Athletics and Physical Education Facilities
B.S., Bucknell University; M.S., Springfield College; Ed.D., Temple University.

Rosemary H. Herman, A.B., M.A. (1969, 1950)
Associate Professor of Modern Foreign Languages
A.B., Woman's College of the University of North Carolina; M.A., University of North Carolina.

Thomas R. Herrick, A.B., M.A., Ph.D. (1980, 1980)
Assistant Professor of Economics
A.B., M.A., Ph.D., University of Chicago.

Margaret M. Hofmann, A.B., M.A., Ph.D. (1973, 1963)
Professor of Modern Foreign Languages
A.B., Wellesley College; M.A., University of New Hampshire; Ph.D., University of Kansas.

Miriam B. Hoge, A.B., M.A., Ph.D. (1967, 1956)
Professor of Modern Foreign Languages
A.B., Randolph-Macon Woman's College; M.A., Ph.D., University of Pennsylvania.

Joseph E. Holmes, B.S., M.S., Ed.D. (1974, 1968)
Associate Professor of Education
B.S., M.S., State University of New York at New Paltz; Ed.D., University of Virginia.

John P. Johnson, B.S., M.F.A. (1976, 1968)
Instructor in Education
B.S., Virginia State College; M.F.A., Howard University.

Rose Mary Johnson, A.B., M.A., Ph.D. (1972, 1962)
Professor of Biological Sciences
A.B., Hood College; M.A., Ph.D., University of Virginia.

Thomas L. Johnson, B.A., M.A., Ph.D. (1973, 1959)
Professor of Biological Sciences
B.A., Lynchburg College; M.A., Ph.D., University of Virginia.

Thomas W. Johnson, B.S., M.S., D.Sc. (1979, 1978)
Assistant Professor of Mathematical Sciences
B.S., M.S., University of Virginia; D.Sc., George Washington University.

Michael Joyce, B.A., M.F.A. (1980, 1980)
Assistant Professor of Drama
B.A., Loyola College; M.F.A., The Catholic University of America.

Mary A. K. Kelly, B.A., M.A. (1974, 1947)
Professor of Psychology, Director of the Counseling Center
B.A., Mary Washington College; M.A., Ohio State University.

J. William Kemp, Jr., B.A., M.A., Ph.D. (1977, 1970)
Associate Professor of English
B.A., Millsaps College; M.A., Mississippi State University; Ph.D., University of South Carolina.

Roger L. Kenvin, A.B., M.A., M.F.A., D.F.A. (1972, 1959)
Professor of Dramatic Arts
A.B., Bowdoin College; M.A., Harvard University; M.F.A., D.F.A., Yale University.

Meg S. Kintzing, B.S.P.E., M.Ed. (1978, 1975)
Assistant Professor of Health and Physical Education
B.S.P.E., M.Ed., Western Maryland College.

John M. Kramer, B.A., M.A., Ph.D. (1977, 1971)
Associate Professor of Political Science
B.A., LaSalle College; M.A., Ph.D., University of Virginia.

Richard J. Krickus, B.A., M.A., Ph.D.
Professor of Political Science
B.A., College of William and Mary; M.A., University of Massachusetts; Ph.D., Georgetown University.

John L. Lamph, A.A., B.A., M.F.A. (1974, 1969)
Associate Professor of Art
A.A., Fullerton Junior College; B.A., California State College at Fullerton; M.F.A., Claremont Graduate School.

Bernard C. Lemoine, B.M., M.M., Ph.D. (1977, 1965)
Professor of Music
B.M., Oberlin Conservatory of Music; M.M., University of Illinois; Ph.D., The Catholic University of America.

Alexander J. Lindsey, B.S., M.S, M.A., Ph.D. (1979, 1971)
Professor of Mathematical Sciences
B.S., State University College; M.S., M.A., Ph.D., Syracuse University.

Gene Lohrke, B.S., M.S., Ph.D. (1979, 1979)
Assistant Professor of Economics
B.S., M.S., South Dakota State University; Ph.D., University of Oklahoma.

Bruce London, B.A., M.A., Ph.D. (1977, 1976)
Assistant Professor of Sociology
B.A., Bates College; M.A., Ph.D., University of Connecticut.

David J. Long, B.M., M.M., D.M.A. (1980, 1980)
Assistant Professor of Music
B.M., Arizona State University; M.M., D.M.A., North Texas State University.

Carlton R. Lutterbie, Jr., B.S., M.A., Ph.D. (1976, 1967)
Associate Professor of English
B.S., Northwestern University; M.A., Ph.D., University of Chicago.

Jo Ann Lutz, B.A., M.A., Ph.D. (1978, 1978)
Assistant Professor of Mathematical Sciences
B.A., University of Wisconsin; M.A., Ph.D., Duke University.

Bruce D. MacEwen, B.A., M.A., Ph.D. (1979, 1969)
Professor of Psychology
B.A., LaVerna College; M.A., University of California at Los Angeles; Ph.D., Arizona State University.

Bernard L. Mahoney, Jr., B.S., M.S., Ph.D. (1973, 1964)
Professor of Chemistry
B.S., M.S., Boston College; Ph.D., University of New Hampshire.

John C. Manolis, B.A., M.A., Ph.D. (1977, 1964)
Associate Professor of Modern Foreign Languages
B.A., Assumption University; M.A., Florida State University; diploma, Institut de Phonetique University Paris; Ph.D., Florida State University.

Sheila M. McGarr, B.A., M.S.L.S. (1976, 1976)
Instructor, Readers Services Librarian (Circulation)
B.A., Merrimack College; M.S.L.S., Catholic University of America.

A. Ray Merchent, B.A., M.Ed., Ed.D. (1974, 1959)
Professor of Education, Vice President for Continuing Education
B.A., Emory and Henry College; M.Ed., Ed.D., University of Virginia.

Sammy R. Merrill, B.A., M.A., Ph.D. (1977, 1973)
Associate Professor of Modern Foreign Languages
B.A., Wake Forest University; M.A., Duke University; Ph.D., Cornell University.

Barbara S. Meyer, B.A., M.A., Ph.D. (1977, 1971)
Associate Professor of Art
B.A., Trinity University; M.A., University of Maryland; Ph.D., Johns Hopkins University.

Nancy H. Mitchell, B.A., M.A., Ph.D. (1973, 1960)
Professor of English
B.A., Swarthmore College; M.A., Yale University; Ph.D., The Catholic University of America.

Sidney H. Mitchell, B.A., M.A., Ph.D. (1967, 1954)
Professor of English
B.A., Swarthmore College; M.A., Ph.D., University of Virginia.

Thomas G. Moeller, A.B., M.A., Ph.D. (1973, 1973)
Assistant Professor of Psychology
A.B., Marquette University; M.A., Ph.D., University of Iowa.

Paul C. Muick, B.F.A., A.M., Ph.D. (1973, 1964)
Professor of Art
B.F.A., Ohio State University; A.M., University of Chicago; Ph.D., Ohio State University.

Vera Niebuhr, B.A., M.A., Ph.D. (1978, 1977)
Assistant Professor of Modern Foreign Languages
B.A., Douglass College; M.A., Ph.D., University of Wisconsin.

Nikola M. Nikolic, B.S., M.A., Ph.D. (1974, 1969)
Professor of Physics
B.S., Belgrade University; M.A., Ph.D., Columbia University.

Denis Nissim-Sabat, B.A., Ph.D. (1976, 1976)
Assistant Professor of Psychology
B.A., Case Western Reserve University; Ph.D., Temple University.

Patricia P. Norwood, B.M., M.M., Ph.D. (1979, 1977)
Assistant Professor of Music
B.M., Wheaton College; M.M., Ph.D., University of Texas.

Cornelia D. Oliver, B.A., A.M., Ph.D. (1974, 1958)
Professor of Art
B.A., Smith College; A.M., Duke University; Ph.D., The Catholic University of America.

Joan T. Olson, B.A., M.A., Ph.D. (1979, 1979)
Assistant Professor of Sociology
B.A., Wheaton College; M.A., Michigan State University; Ph.D., Northwestern University.

Richard P. Palmieri, B.A., M.A., Ph.D. (1977, 1977)
Assistant Professor of Geography
B.S., Boston State; M.A., University of Texas; Ph.D., University of California.

Mary Jo Parrish, B.A., M.A., Ph.D. (1971, 1954)
Professor of Biological Sciences
B.A., M.A., University of North Carolina; Ph.D., University of Virginia.

Aniano Peña, M.A., Ph.D. (1974, 1974)
Assistant Professor of Modern Foreign Languages
M.A., Temple University; Ph.D., University of Pennsylvania.

Mary Belle Pendleton, BA., M.A., Ph.D. (1980, 1980)
Assistant Professor of Art
B.A., University of South Alabama; M.A., Tulane University; Ph.D., Northwestern University.

Patricia J. Pierce, B.A., M.S. (1978, 1966)
Associate Professor of Mathematical Sciences
B.A., University of Colorado; M.S., Oregon State University.

Mary W. Pinschmidt, A.B., A.M., Ph.D. (1975, 1964)
Associate Professor of Biological Sciences
A.B., Western Maryland College; A.M., Duke University; Ph.D., Medical College of Virginia.

William C. Pinschmidt, Jr., B.S., M.S., Ph.D. (1968, 1952)
Professor of Biological Sciences
B.S., Mount Union College; M.S., Ohio State University; Ph.D., Duke University.

Leena K. Puhakka, B.A., M.A., M.A., Ph.D. (1977, 1977)
Assistant Professor of Psychology
B.A., Knox College; M.A., M.A., Ph.D., The University of Toledo.

Joanna L. Quann, A.B., M.A., Ph.D. (1978, 1968)
Assistant Professor of Modern Foreign Languages
A.B., Wesleyan College; M.A., Duke University; Ph.D., George Washington University.

Alice B. Rabson, A.B., M.S., Ph.D. (1978, 1969)
Professor of Psychology
A.B., Cornell University; M.S., Ph.D., Purdue University.

Martha L. Randall, B.M., M.M. (1978, 1978)
Instructor in Music
B.M., M.M., University of Kansas.

Peggy K. Reinburg, B.A., M.M. (1972, 1966)
Instructor in Music
B.A, Mary Washington College; M.M., Northwestern University.

Peggy Riner, M.T. (ASCP)
Adjunct Lecturer
Education Coordinator, School of Medical Technology, Roanoke Memorial Hospitals.

Key S. Ryang, B.A., M.A., Ph.D. (1972, 1968)
Associate Professor of History
B.A., Trinity University; M.A., Ph.D., Columbia University.

Robert S. Rycroft, B.A., M.A., Ph.D. (1978, 1977)
Assistant Professor of Economics
B.A., College of William and Mary; M.A., Ph.D., University of Maryland.

Dawn R. Shupe, M.T. (ASCP)
Adjunct Lecturer
Education Coordinator, School of Medical Technology, University of Virginia.

Raman K. Singh, B.A., M.A., Ph.D. (1980, 1967)
Professor of English
B.A., St. Stephen's College; M.A., Western Michigan University; Ph.D., Purdue University.

Paul C. Slayton, Jr., B.S., M.Ed., Ed.D. (1974, 1965)
Professor of Education and Director of Student Teaching and Public Education Services
B.S., M.Ed., Ed.D., University of Virginia.

Charles A. Sletten, B.A., A.M., Ph.D. (1967, 1958)
Professor of Sociology
B.A., University of Virginia; A.M., Ph.D., Harvard University.

Roy H. Smith, B.S., Ph.D. (1980, 1970)
Professor of Psychology
B.S., University of Tennessee; Ph.D., University of Pennsylvania.

Joanne G. Southworth, B.A., Ph.D. (1977, 1972)
Assistant Professor of Biological Sciences
B.A., Randolph-Macon Woman's College; Ph.D., Medical College of Virginia.

Philip D. Spiess, II, B.A., M.A., M.A. (1979, 1979)
Instructor in History
B.A., Hanover College; M.A., University of Delaware; M.A., Indiana University.

Mary Ellen Stephenson, B.A., M.A., Ph.D. (1964, 1948)
Professor of Modern Foreign Languages
B.A., Westhampton College; M.A., Middlebury College; Ph.D., University of Chicago.

Laura V. Sumner, A.B., M.A., Ph.D. (1963, 1948)
Professor of Classics
A.B., Vassar College; M.A., Ph.D., Johns Hopkins University.

Glen R. Thomas, B.A., M.A., Ph.D. (1974, 1962)
Professor of American Studies
B.A., Stanford University; M.A., The American University; Ph.D., Emory University.

Arthur L. Tracy, B.A., M.A., Ph.D. (1975, 1968)
Associate Professor of History
B.A., Barrington College; M.A., Ph.D., The American University.

James F. Tucker, B.S., M.S., Ph.D. (1978, 1975)
Lecturer in Economics
B.S., M.S., Howard University; Ph.D., University of Pennsylvania.

Victor G. Tupitsyn, M.A., Ph.D. (1980, 1980)
Assistant Professor of Mathematical Sciences
M.A., Moscow State University; Ph.D., State University of New York at Stony Brook.

Joseph C. Vance, B.A., M.A., Ph.D. (1967, 1960)
Professor of History
B.A., M.A., Ph.D., University of Virginia.

George M. Van Sant, A.B., M.A., Ph.D. (1967, 1958)
Professor of Philosophy
A.B., St. John's College; M.A., Ph.D., University of Virginia.

Jacquelyn M. Vawter, B.S.Ed., M.Ed., Ph.D. (1974, 1972)
Assistant Professor of Education
B.S.Ed., Illinois State University; M.Ed., Ph.D., University of Maryland.

Brenda E. Vogel, B.F.A., M.A., Ed.D. (1977, 1977)
Assistant Professor of Education
B.F.A., Virginia Commonwealth University; M.A., Ed.D., Virginia Polytechnic Institute and State University.

H. Conrad Warlick, B.A., M.A., Ed.D. (1978, 1974)
Professor of Education, Dean of Admissions and Financial Aid
B.A., Wake Forest; M.A., University of North Carolina; Ed.D., University of Virginia.

Richard H. Warner, A.B., M.A., Ph.D. (1978, 1968)
Associate Professor of History
A.B., Dartmouth College; M.A., Ph.D., New York University.

Sallie F. Washington, A.S., B.A. (1978, 1978)
Lecturer, Assistant Dean of Admissions and Financial Aid
A.S., Germanna Community College; B.A., Mary Washington College.

Catherine B. Wegner, B.A., M.S. (1978, 1978)
Instructor, Assistant Dean of Students
B.A., Newcomb College of Tulane; M.S., American University.

Ruby Y. Weinbrecht, B.A., M.A. (1972, 1972)
Professor, Librarian
B.A., Mary Washington College; M.A., George Peabody College.

Roy B. Weinstock, B.A., M.A., Ph.D. (1974, 1968)
Professor of Psychology, Associate Dean for Academic Services
B.A., Brooklyn College; M.A., Hollins College; Ph.D., Syracuse University.

Jan S. White, B.A., M.A. (1977, 1977)
Instructor in Music
B.A., Occidental College; M.A., Arizona State University.

Martin A. Wilder, Jr., B.A., M.Ed. (1979, 1979)
Instructor, Assistant Dean of Admissions and Financial Aid
B.A., M.Ed., University of Virginia.

Margaret H. Williamson, B.A., B. Litt., D.Phil. (1974, 1974)
Assistant Professor of Anthropology
B.A., Bryn Mawr College; B.Litt., D.Phil., Oxford University.

Michael R. Wills, M.D., Ph.D.
Adjunct Lecturer
Director, Clinical Laboratories
University of Virginia.

David E. Winn, A.B., M.A. (1977, 1977)
Instructor in Classics
A.B., M.A., College of William and Mary.

Lawrence A. Wishner, B.S., M.S., Ph.D. (1968, 1961)
Professor of Chemistry
B.S., M.S., Ph.D., University of Maryland.

Prince B. Woodard, B.A., M.A., Ed.D., L.L.D. (1974, 1974)
Professor of Education, President
B.A., Virginia Military Institute; M.A., Ed.D., University of Virginia; L.L.D., West Virginia Wesleyan.

Rebecca T. Woosley, A.B., B.S., M.S. (1963, 1950)
Associate Professor of Health and Physical Education
A.B., Woman's College of the University of North Carolina; B.S., Mary Washington College; M.S., Louisiana State University.

Kathryn F. Wright, M.T. (ASCP)
Adjunct Lecturer
Education Coordinator, School of Medical Technology, Fairfax Hospital.

Janet G. Zeleznock, B.S., M.A. (1975, 1967)
Associate Professor of Mathematical Sciences
B.S., St. Francis College; M.A., Duquesne University.

Benjamin F. Zimdars, B.A., M.A., Ph.D. (1972, 1965)
Professor of History
B.A., North Central College; M.A., University of Wisconsin; Ph.D., University of Texas.

Paul M. Zisman, B.A., M.A.T., Ph.D. (1977, 1971)
Associate Professor of Education
B.A., College of William and Mary; M.A.T., Howard University; Ph.D., The Catholic University of America.

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Calendar

1980-1981

First Semester 1980

Saturday	August 23	Residence halls open at 9 a.m. for new freshmen and transfer students. Student Association Orientation for all new students begins at 7 p.m.
Sunday	August 24	Residence halls open at 9 a.m. for returning students
Sunday	August 24	Registration for late admissions, unregistered returning students, part-time and special students from 3-8 p.m.
Monday	August 25	Classes begin
Fri.-Sat.	September 19-20	Family Weekend
Friday	October 10	Mid-semester vacation begins at 5 p.m. Residence halls close at 7 p.m.
Wednesday	October 15	Mid-semester vacation ends at 8 a.m. Residence halls open at 1 p.m. Tuesday, October 14
November 10-25		Registration for second semester
Wednesday	November 26	Thanksgiving holiday begins at 12:05 p.m. Residence halls close at 2 p.m.
Monday	December 1	Thanksgiving holiday ends at 8 a.m. Residence halls open at 1 p.m., Sunday, November 30
Fri.-Sat.	December 5-6	Reading days
Mon.-Sat.	December 8-13	Examinations
Saturday	December 13	Residence halls close at 7 p.m.

Second Semester 1981

Sunday	January 11	Residence halls open at 9 a.m.
Sunday	January 11	New student advising and registration 2-5 p.m.
Monday	January 12	Classes begin
Friday	February 27	Spring vacation begins at 5 p.m. Residence halls close at 7 p.m.
Monday	March 9	Classes resume at 8 a.m. Residence halls open at 1 p.m., Sunday, March 8
April 6-17		Registration for the first semester of 1981-82
Fri.-Sat.	April 24-25	Reading Days
Mon.-Sat.	April 27-May 2	Examinations
Saturday	May 2	Residence halls close at 7 p.m. for students who are not candidates for graduation
Saturday	May 9	Graduation. Residence halls close at 7 p.m.

Summer Session 1981

Term	Registration (4-8 p.m.)	Classes Begin	Examinations
Three-Week	Monday, May 11	Tuesday, May 12	Friday, May 29
First Four-Week	Monday, June 1	Tuesday, June 2	Friday, June 26
Second Four-Week	Monday, June 29	Tuesday, June 30	Friday, July 24

1981-1982

First Semester 1981

Saturday	August 29	Residence halls open at 9 a.m. for new freshmen and transfer students. Student Association Orientation for all new students begins at 7 p.m.
Sunday	August 30	Residence halls open at 9 a.m. for returning students.
Sunday	August 30	Registration for late admissions, unregistered returning students, part-time and special students from 3-8 p.m.
Monday	August 31	Classes begin
Fri.-Sat.	September 25-26	Family Weekend
Friday	October 9	Mid-semester vacation begins at 5 p.m. Residence halls close at 7 p.m.
Wednesday	October 14	Mid-semester vacation ends at 8 a.m. Residence halls open at 1 p.m. Tuesday, October 13
November 9-24		Registration for second semester
Wednesday	November 25	Thanksgiving holiday begins at 12:05 p.m. Residence halls close at 2 p.m.
Monday	November 30	Thanksgiving holiday ends at 8 a.m. Residence halls open at 1 p.m., Sunday, November 29
Fri.-Sat.	December 11-12	Reading days
Mon.-Sat.	December 14-19	Examinations
Saturday	December 19	Residence halls close at 7 p.m.

Second Semester 1982

Sunday	January 17	Residence halls open at 9 a.m.
Sunday	January 17	New student advising and registration 2-5 p.m.
Monday	January 18	Classes begin
Friday	March 5	Spring vacation begins at 5 p.m. Residence halls close at 7 p.m.
Monday	March 15	Classes resume at 8 a.m. Residence halls open at 1 p.m., Sunday, March 14
April 8-23		Registration for the first semester of 1982-83
Fri.-Sat.	April 30-May 1	Reading Days
Mon.-Sat.	May 3-8	Examinations
Saturday	May 8	Residence halls close at 7 p.m. for students who are not candidates for graduation
Saturday	May 15	Graduation. Residence halls close at 7 p.m.

Mary Washington College
Fredericksburg, Virginia 22401
703/899-4681

Mary Washington College
Fredericksburg, Virginia 22401
703/899-4681